

August 17, 2010

Mr. Ralph Howard U.S. Environmental Protection Agency - Region IV Atlanta Federal Center 100 Alabama Street, S.W. Atlanta, GA 30303

Subject: Transmittal of 2010 Biennial Report for Medley Farm Site Remedial Action

Dear Ralph:

Enclosed, you will find four (4) copies of the 2010 Biennial Report for the Medley Farm NPL Site. These documents are submitted for your review and comment. We look forward to discussing the details of this report with you and other Agency representatives in the near future. By copy of this letter, RMT has also transmitted two (2) copies of this report to Mr. Greg Cassidy of SC DHEC.

If you have any questions or concerns, please do not hesitate to contact me at your earliest convenience (864/234-9363).

Very truly yours,

RMT, Inc.

Steve W. Webb, Ph.D., P.E.

Senior Project Manager

cc: Medley Farm Distribution List

Greg Cassidy - SC DHEC

Lisa Clark Central Files

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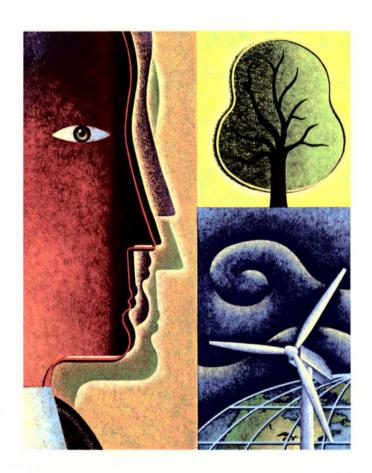
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2010 Remedial Action Biennial Report

Medley Farm Site Gaffney, South Carolina

August 2010





2010 Remedial Action Biennial Report

Medley Farm Site

Gaffney, South Carolina

August 2010

Prepared For Medley Farm Site Steering Committee

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Executive Summary

In 2004, enhanced reductive dechlorination (ERD) was initially implemented at the Medley Farm Site (site) as an interim corrective measure (ICM) to facilitate the growth of anaerobic microbes to *in situ* treat residual levels of volatile organic compound (VOC) observed at the site and accelerate attainment of the groundwater remediation goals established for the site. Since October 2004, six ERD nutrient injection events have been conducted at the site. Each event has been followed by the collection and analysis of groundwater samples to evaluate the ERD performance. Beginning in June 2008, collection and analysis of surface water samples was added to the ERD performance monitoring program. Since July 2008, RMT has attempted to maximize ERD efforts by increasing the volume of treatment additive introduced into each of the injection wells located within areas of residual tetrachloroethene and trichloroethene (PCE/TCE) groundwater concentrations.

Groundwater monitoring data collected in March 2010 indicate that, in several limited areas, seven chlorinated VOCs remain in groundwater at concentrations exceeding their respective remediation goals. These VOCs include PCE, TCE, *cis*-1,2-dichloroethene (*cis*-DCE), 1,1,2-trichloroethane (1,1,2-TCA), 1,1-DCE, 1,2-dichloroethane (1,2-DCA) and vinyl chloride. Of these compounds, PCE and TCE remain the most widespread. VOCs have not been detected in surface water samples collected from the unnamed tributary to Jones Creek.

A considerable reduction in the PCE/TCE groundwater plume has been observed since ERD was initiated in 2004. What was once a site-wide, single VOC plume has evolved into smaller fragmented remnants, currently designated as the northern, southern, and eastern VOC plumes. Aquifer conditions conductive to ERD processes show good evidence of persistence within the active treatment areas. Geochemical indicators suggest that ERD-appropriate conditions are maintained for a period of at least six months and possibly extending up to two years after an injection event.

Varying degrees of remedial progress continue to be observed within the three remnant VOC plumes. The southern plume has shown the most remedial progress, with only two monitoring wells currently displaying VOCs at levels above site groundwater clean-up goals, and performance monitoring results which support a monitored natural attenuation (MNA) remedy.

PCE/TCE concentrations in groundwater samples collected from the perimeter wells of the eastern plume are stable to declining in concentration, indicating that the eastern plume is not

expanding. Concentrations of daughter products *cis*-DCE and vinyl chloride and geochemical indicators show strong evidence of reductive dechlorination (RD) throughout the eastern plume area. Based on the groundwater performance monitoring data, RMT believes that active remedial measures in this portion of the site are nearing completion and a transition to MNA is imminent.

Aquifer conditions conducive to ERD are not as strong across the major portion of the northern plume. Increasing molarities of the parent compounds, coupled with limited production of *cis*-DCE or vinyl chloride daughter products indicates to RMT that ERD is occurring to a lesser degree than we have observed in the southern and eastern plume areas. Geochemical indicators also support a conclusion that aquifer conditions conducive to ERD are less widely propogated and sustained in this portion of the aquifer.

Three additional injection wells and one additional performance monitoring well are proposed to enhance the performance of ERD in the northern plume. The focus of the proposed new wells is to better position their well screens more strategically across the northern VOC plume and enhance and augment ERD treatment performance in this area.

Modification of the present list of performance monitoring parameters is also recommended. Recent site data suggests that volatile fatty acid (VFA) and sulfate have not been useful indicator parameters that provide value and help RMT assess and evaluate ERD treatment performance. RMT recommends that these parameters be deleted from further use in the site performance monitoring program and future performance monitoring events occur with the reduced parameter list.

Section 1 Introduction

Since submittal of the 2007 Remedial Action Annual Report (RMT, 2008), RMT, Inc. (RMT) has conducted two additional nutrient injection events and two site-wide performance monitoring events at the site. The first of these nutrient injection events was conducted during the period of July and August 2008. This treatment event represented the fifth in a series of lactase-based, nutrient injection events, designed to stimulate growth of naturally occurring anaerobic microbes and adjust aquifer conditions making them more conducive to ERD. The 2008 nutrient injection event was followed by collection and analysis of groundwater and surface water samples from across the site during the period of January and February 2009.

The sixth nutrient injection event was conducted at the site during the period of August and October 2009. Once more, this treatment event was followed by a site-wide performance monitoring event in March 2010. Thus, this 2010 Biennial Progress Report has been prepared to describe these latest nutrient injection events (conducted in 2008 and 2009) and document the results of the performance groundwater and surface water monitoring activities conducted in 2009 and 2010, respectively. Based upon the data and findings from these field activities, RMT has prepared an evaluation of the remedial progress attained to date through the application of ERD treatment measures.

1.1 Background

Active remediation of the site was first initiated in March 1995. As specified in the 1991 Record of Decision (ROD), remedial measures were employed to address groundwater and soils affected by VOCs. Accordingly, groundwater recovery and soil vapor extraction (SVE) treatment systems were deployed. Groundwater pump-and-treat (P&T) operations were conducted at the site during the period of March 1995 until August 2004. During this time-frame, RMT personnel conducted all manner of technical maximization measures to enhance recovery of VOCs from subsurface soils and groundwater. During this period of active groundwater P&T operations, approximately 100 million gallons of VOC-affected groundwater were recovered, treated, and discharged via the National Pollutant Discharge Elimination System (NPDES) outfall.

In 2004, RMT conducted a detailed evaluation of site remediation progress and determined that the operational benefits of the ongoing P&T and SVE systems had declined significantly and observed water quality levels had reached asymptotic (steady state) conditions. While these active treatment measures had effectively reduced observed VOC concentrations in

groundwater across the site, residual concentrations of VOCs, above site clean-up levels, remained in several limited areas. It was during this time that RMT proposed modification of the existing site treatment protocols to incorporate ERD as an ICM.

At this time, subsurface water quality conditions across most of the site were predominantly aerobic. The United States Environmental Protection Agency (USEPA) and the South Carolina Department of Health and Environmental Control (SC DHEC) agreed to allow RMT to proceed with ERD treatment efforts at targeted locations across the site as an ICM to determine if the growth of subsurface anaerobic organisms could be stimulated *in situ* and facilitate ERD treatment of VOC residuals to further accelerate clean-up of the affected groundwater and achieve remediation goals established for the site.

In September 2004, RMT began modification of the existing SVE and groundwater P&T systems to accommodate ERD efforts within select site wells. All of the former groundwater recovery wells and many strategically located monitoring wells were retrofitted to receive injection of a lactate-based nutrient suspension that was designed to stimulate the growth of subsurface anaerobic microorganisms responsible for ERD. Following the collection of an initial baseline groundwater quality monitoring event in September 2004, the first lactate-based nutrient injection event commenced in October 2004. Additional lactate injection events were conducted in May/June 2005, November/December 2005, and July/August 2006. After a period of approximately six months, nutrient injection events were followed up by performance monitoring events to evaluate the response of the aquifer to these *in situ* treatment measures. Details of these prior nutrient injection and performance monitoring events have been summarized in previous annual reports that have been submitted to the USEPA and SC DHEC.

1.2 Purpose and Scope

This 2010 Remedial Action Biennial Report has been prepared to document the outcome of ERD nutrient injection events conducted in 2008 and 2009, respectively. Furthermore, this report presents the results of performance monitoring sampling that was conducted in 2009 and 2010. These activities have been performed to accelerate treatment of VOC residuals observed at the site, evaluate the performance of ERD treatment measures in achieving the site remedial cleanup objectives, and to develop recommendations to accelerate these ERD treatment efforts and achieve site closure.

The information and details contained in this report includes the following:

- A summary of the recent ERD nutrient injection events.
- Maps depicting water table configuration and groundwater flow direction for the periods of 2009 and 2010.

- Current (2010) interpretations of the distribution of VOCs in groundwater.
- An evaluation of the persistence of the nutrient treatment solution within the aquifer.
- An evaluation of the continued effectiveness of ERD treatment efforts in remediating the site-specific VOCs
- Consideration of additional technical maximization measures to improve the distribution and effectiveness of these ongoing ERD nutrient injections.
- Recommendations for enhancements and modification to the current listing of site indicator parameters to make them more site-specific and appropriate to observed aquifer conditions.

Section 2 Enhanced Reductive Dechlorination Nutrient Injections

During the period of October 2004 through present, RMT has conducted six nutrient injection events. The first four injection events were documented in the following RMT reports, including: *Preliminary Performance Evaluation, Initial Enhanced Dechlorination Injection* (RMT, 2005), 2005 Remedial Action Annual Report (RMT, 2006), 2006 Remedial Action Annual Report (RMT, 2007), and 2007 Remedial Action Annual Report (RMT, 2008). The text and graphics which follow are submitted to describe the ERD nutrient injection events that were conducted at the site in July/August 2008 and August/October, 2009.

2.1 2008 Nutrient Injection Event

RMT conducted the fifth in a series of targeted nutrient injection events during the period of July through August 2008. During this treatment event, 14 wells were utilized for nutrient injection, including: A-2, A-3, A-4, A-5, A-6, A-7, B-1, B-2, B-3, DP-2-1, DP-3-1, DP-3-2, MW-3D, and MW-4-2. Historically, each injection well has received a nutrient suspension containing a proprietary blend of lactate syrup, sodium bicarbonate, yeast extract, and sodium metabisulfite. These nutrients are then diluted to the appropriate proportions using site groundwater collected from monitoring well BW-3 (situated adjacent to the unnamed tributary to Jones Creek.)

The prescribed application rate for ERD additives has typically been predicated upon the location of each injection point relative to known former VOC source areas. For injection wells located within former VOC source areas (*i.e.*, wells DP-3-1 and DP-3-2), each injection well would typically receive approximately 44,000 gallons of treatment additive over a seven day period. Calculations suggested this treatment approach would develop a radius of influence (ROI) of about 25 feet. For injection wells located along the outer fringe of the residual VOC plume (*i.e.*, the former A-series and B-series groundwater recovery wells), each of these wells would receive approximately 7,000 gallons over a one-day period, resulting in an estimated ROI of approximately 10 feet.

During the July/August 2008 injection event, RMT attempted a more aggressive tactic by introducing as much additional nutrient suspension, as possible, into each of the selected injection wells, limited only by what the aquifer would readily accept. By increasing the volume of treatment additive introduced into specific injection wells, it was RMT's objective to

maximize the observed area of influence around each injection well and further optimize conditions for ERD. High volume nutrient injections were focused on those injection wells that were located within the remaining areas displaying residual concentrations of PCE and TCE, as illustrated in the 2007 Remedial Action Annual Report (RMT, 2008). Thus, the wells receiving higher volume nutrient injections included wells DP-2-1, DP-3-1, MW-3D, A-5, and B-2 (see Figure 2-1). Routine volumes of nutrient were injected into the perimeter and downgradient injection wells. Table 2-1 summarizes the total volumes of nutrient suspension injected into each well during the 2008 injection event. For comparative purposes, Table 2-1 also summarizes total volumes of nutrient ascribed to each prior injection event conducted since the onset of ERD in 2004.

2.2 2009 Nutrient Injection Event

RMT conducted the sixth targeted nutrient injection event during the period of August to October 2009. Again, 14 wells were utilized as injection points, with only minor changes from the 2008 nutrient injection event. O&M repairs were made to the well casing of former recovery well A-1 in 2009. Monitoring well MW-4-2, after having been added to the list of injection wells in 2006 and 2008, was returned to the status of a monitoring well during the 2009 treatment event.

During the August/October 2009 injection event, RMT once more attempted to maximize the introduction of additional nutrient suspension into each of the selected injection wells, where residual VOC concentrations remained most persistent. Higher volume nutrient injections were focused on those wells located within the remaining areas with elevated PCE/TCE concentrations, as interpreted from the January/February 2009 performance monitoring event. Wells receiving the higher volumes of ERD nutrient during the 2009 event included: DP-2-1, A-3, A-5, and MW-3D. Routine volumes of nutrient were injected into the perimeter and downgradient injection wells. Total volumes of nutrient suspension injected into each well during the August-October 2009 event are provided on Table 2-1.

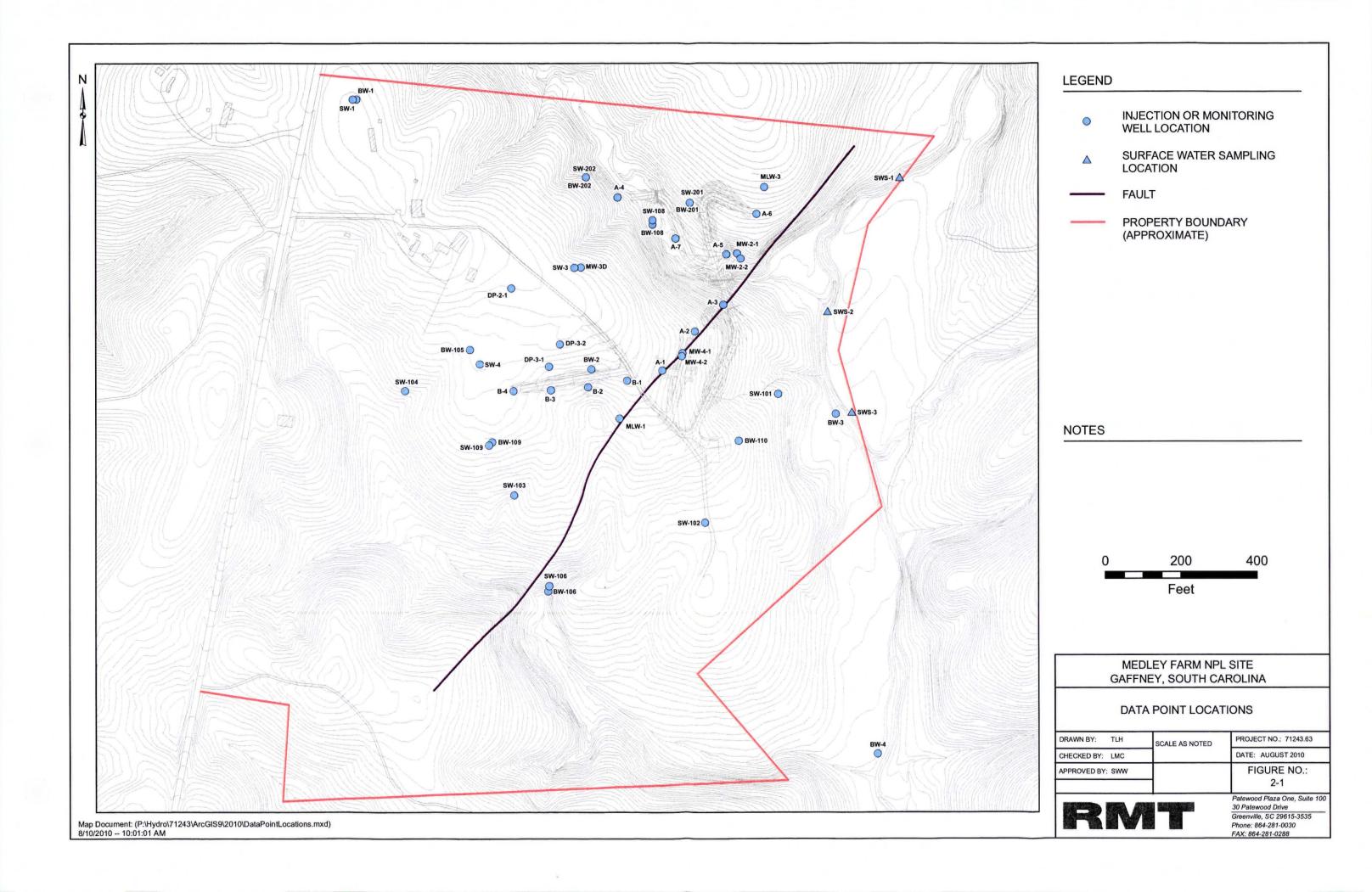


Table 2-1
Nutrient Injection Summary

INJECTION WELL	VOLUME OF NUTIRENT SUSPENSION (gal)													
AAETT	OCT/NOV 04	MAY/JUN 05	NOV/DEC 05	JUL/AUG 06	JUL/AUG 08	AUG/OCT 09								
DP-2-1				44,588	61,516	63.459								
DP-3-1	44,346	49,392	48,140	51,413	51,883	7,600								
DP-3-2	46,968	46,880	47,563		8,672	8,364								
A-1	6.745	8,583	7,980	7.490		5,708								
A-2	7,465	7,841	8,620	6.520	7,021	8,178								
A-3	8,342	7,865	8.855	6,800	7,236	9,496								
A-4	7.181	7,260	3.971		4.240	6,893								
A-5	7,539	6,542	4.820	5.415	10,142	12,934								
A-6	7,261	6,947	6,837		6,366	6,699								
A-7	6,770	7.482	6.303		3.656	7,760								
B-1	7.284	7,285	8.990		7.530	6,850								
B-2	7,917	8.638	8,440		57.692	7.550								
B-3	7,313	8.857	8.440		7.933	7.000								
B-4	8.330	6,580	5,222											
MW-3D			4,318	6,710	20,687	11,410								
MW-2-1				O ⁽¹⁾										
MW-2-2				0 ⁽¹⁾										
MW-4-1				0 ⁽¹⁾										
MW-4-2				5820	3366									
SW-3				O ⁽¹⁾										

ell would not accept water.

Section 3 Performance Monitoring

Since December 2004, routine performance monitoring has been conducted to evaluate the progress of ERD treatments in promoting the reduction of site-wide VOC levels and the achievement of groundwater remedial goals. The following site conditions were evaluated as an ongoing part of this performance-based groundwater monitoring program:

- Hydraulic gradients and groundwater flow direction
- Observed changes in groundwater quality affecting VOC degradation potential
- Progress and trends of observed degradation of site VOCs
- Relative persistence of the treatment suspension (injectant) within the aquifer.

Currently, performance monitoring is conducted on an annual basis, approximately six months after a nutrient injection event occurs. Water levels are initially measured in all of the on-site monitoring and injection wells. Groundwater samples are then collected and analyzed for the 15 site-specific constituents of concern (COCs), as well as the field and analytical indicator parameters that have been historically used to evaluate the treatment effectiveness of ERD. Because there exists a strong likelihood that regional groundwater discharges into the surface water of the nearby unnamed tributary to Jones Creek, three surface water samples are collected from strategic locations within the creek and analyzed for the site specific COCs.

The ROD established groundwater remediation goals for each of the 15 site-specific COCs, all of which are considered VOCs, are provided in Table 3-1.

In addition to the site-specific COCs, specific parameters indicative of RD processes are monitored. Table 3-2 summarizes these indicator parameters:

3.1 Groundwater Levels and Flow Direction

Site-wide water level measurements were collected from monitoring and injection wells on January 20, 2009 and March 8, 2010. These measurements were used to calculate water table elevations and estimate groundwater flow direction. Table 3-3 summarizes the water level measurement data. Figure 3-1 and Figure 3-2 illustrate the configuration of the water table and interpreted groundwater flow direction on January 20, 2009 and March 8, 2010, respectively. On both dates, groundwater flow was observed in a direction toward the southeast with an average hydraulic gradient of approximately 0.03 to 0.04. These observations remain consistent

with previous site evaluations and data interpretations conducted since shutdown of the groundwater P&T system in 2004.

3.2 Results of Groundwater Sampling and Analysis

Site-wide groundwater sampling events were conducted in January 2009 and March 2010. As noted earlier, each groundwater sampling event was conducted approximately six months after an earlier nutrient injection event. Groundwater samples were collected in accordance with the USEPA-approved Field Sampling and Analysis Plan/Quality Assurance Project Plan (FSAP/QAPP, RMT, 1992). A revised QAPP (RMT, 2010) has recently been prepared for the site and has recently received USEPA and SC DHEC approval, but after these sampling events were already complete. All additional sampling will be conducted in accordance with the newly approved 2010 FSAP/QAPP.

Performance monitoring groundwater samples were submitted under chain-of-custody to Pace Analytical Laboratory of Green Bay, Wisconsin (Pace). Groundwater samples were analyzed for the site-specific list of VOCs, as well as specific indicator parameters for evaluation of the RD process. Results of the laboratory analyses and field parameter measurements are provided on Table 3-4. Analytical laboratory reports further detailing these analyses are provided in Appendix A.

Seven chlorinated VOCs were detected at concentrations exceeding their respective remediation target levels during one or both of the recent monitoring events. These VOCs include PCE, TCE, *cis*-DCE, 1,1,2-TCA, 1,1-DCE, 1,2-DCA and vinyl chloride. Of these compounds, PCE and TCE remain the most widespread. Figure 3-3 and Figure 3-4 illustrate RMT's interpretation of the current (2010) distribution of PCE and TCE in site groundwater, respectively. RMT's 2010 interpretation of the configuration of PCE and TCE in the northern and eastern plumes is very similar to what was observed in September 2007. However, the configuration of PCE and TCE within the southern plume has diminished considerably, compared to what we observed in September 2007.

ERD generally involves dechlorination of the parent compounds, PCE and TCE, producing daughter products including *cis*-DCE and vinyl chloride. The current (2010) distribution of these two daughter products of PCE and TCE are illustrated on Figure 3-5 and Figure 3-6, respectively. While the configuration of the *cis*-DCE plume has diminished compared to September 2007 sampling event, the distribution of vinyl chloride has expanded. The presence and distribution of these two daughter products, represents compelling evidence (especially vinyl chloride) that ERD is occurring.

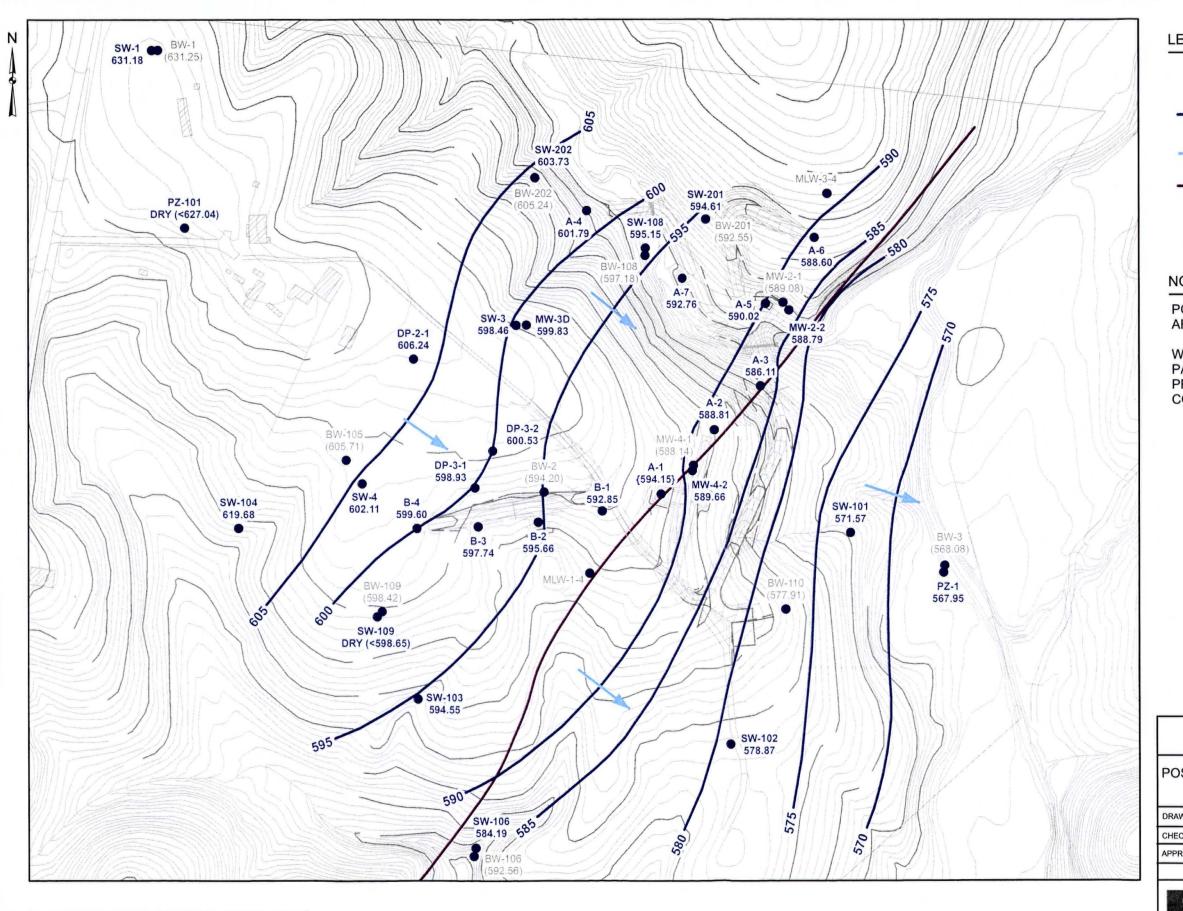
In addition to the chlorinated VOCs, benzene was detected in the groundwater sampled from MW-3D in January 2009. Historically, benzene has never been detected in this well. Groundwater sampled from this well in March 2010 did not contain detectable levels of benzene. The collective data analysis from well MW-3D indicates that the January 2009 detection of benzene was an anomalous result.

3.3 Surface Water Sampling and Analysis

Surface water sampling from the unnamed tributary to Jones Creek was initiated in June 2008, at the request of USEPA. The three surface water sampling locations, designated SWS-1, SWS-2, and SWS-3, are illustrated on Figure 2-1. Since June 2008, these three surface water sampling locations within the unnamed tributary to Jones Creek have been incorporated into the overall site performance monitoring program.

Surface water samples were collected in January 2009 and March 2010, approximately 6 months after each nutrient injection event. Grab samples were collected at each surface water sampling location, as well as measurement of routine field parameters (*i.e.*, specific conductivity, pH, and temperature).

All surface water samples were submitted under chain-of-custody for analysis by Pace for the site-specific list of VOCs. Table 3-5 summarizes the field and laboratory results derived from these efforts. Laboratory reports are provided in Appendix A. Consistent with past sampling events, VOCs were not detected in any of the surface water sampling stations sampled during the 2009, or 2010 sampling events. These data are compelling evidence that VOC-impacted groundwater of the site is not adversely impacting the water quality of this surface water body.



MONITORING WELL

WATER TABLE ELEVATION CONTOUR (FT MSL)

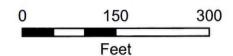
GROUNDWATER FLOW DIRECTION

---- FAULT

NOTES

POSTED WATER TABLE ELEVATIONS ARE IN FEET

WATER ELEVATIONS SHOWN IN PARENTHESES WERE NOT USED IN PREPARATION OF WATER TABLE CONTOURS



MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

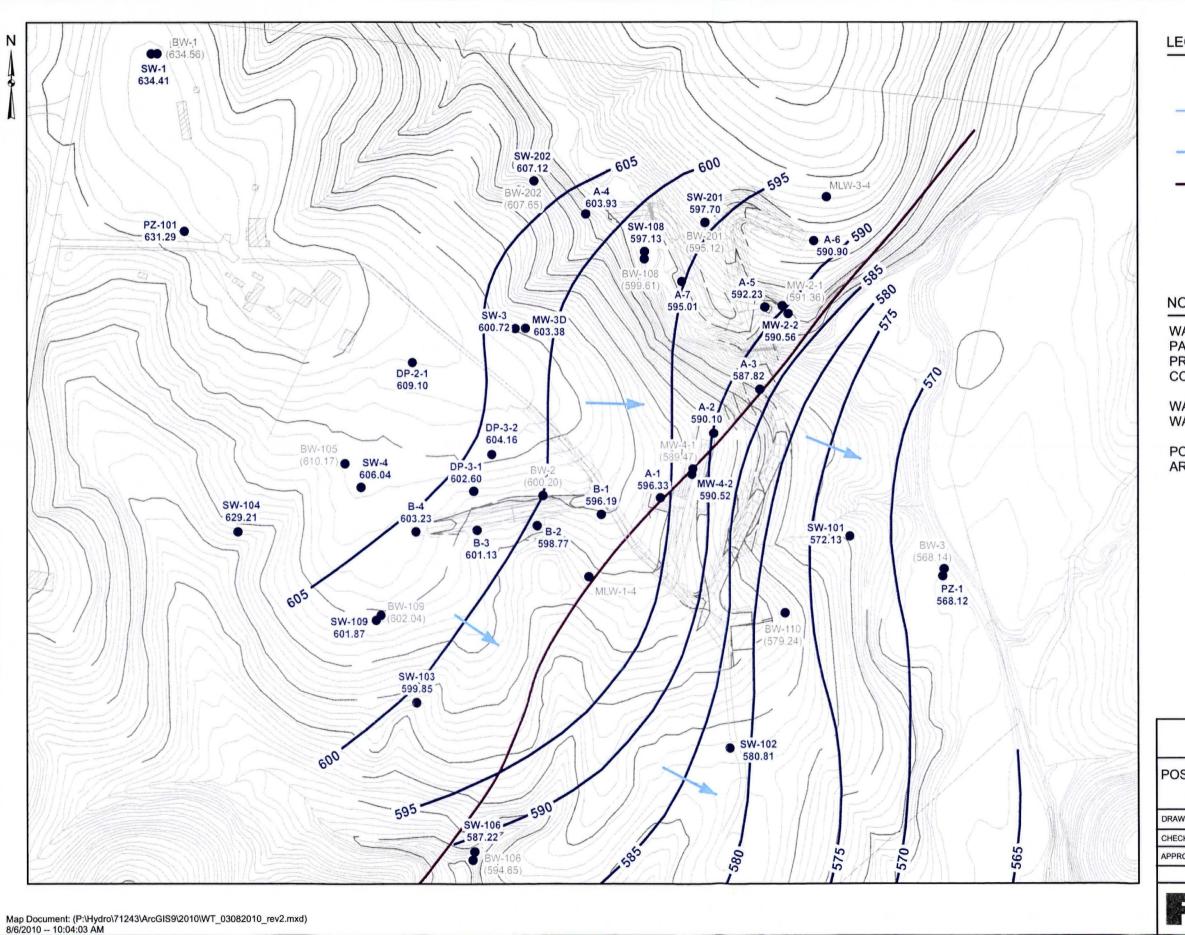
POST INJECTION WATER TABLE CONFIGURATION JANUARY 20, 2009

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71243.63
CHECKED BY: LMC		DATE: AUGUST 2010
APPROVED BY: SWW		FIGURE NO.:
		3-1

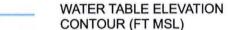


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Map Document: (P:\Hydro\71243\ArcGIS9\2010\WT_01202009_rev2.mxd) 8/6/2010 -- 10:01:52 AM



MONITORING WELL





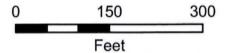
FAULT

NOTES

WATER ELEVATIONS SHOWN IN PARENTHESES WERE NOT USED IN PREPARATION OF WATER TABLE CONTOURS

WATER TABLE ELEVATION OF WELL A-1 WAS MEASURED ON 3/3/2010

POSTED WATER TABLE ELEVATIONS ARE IN FEET



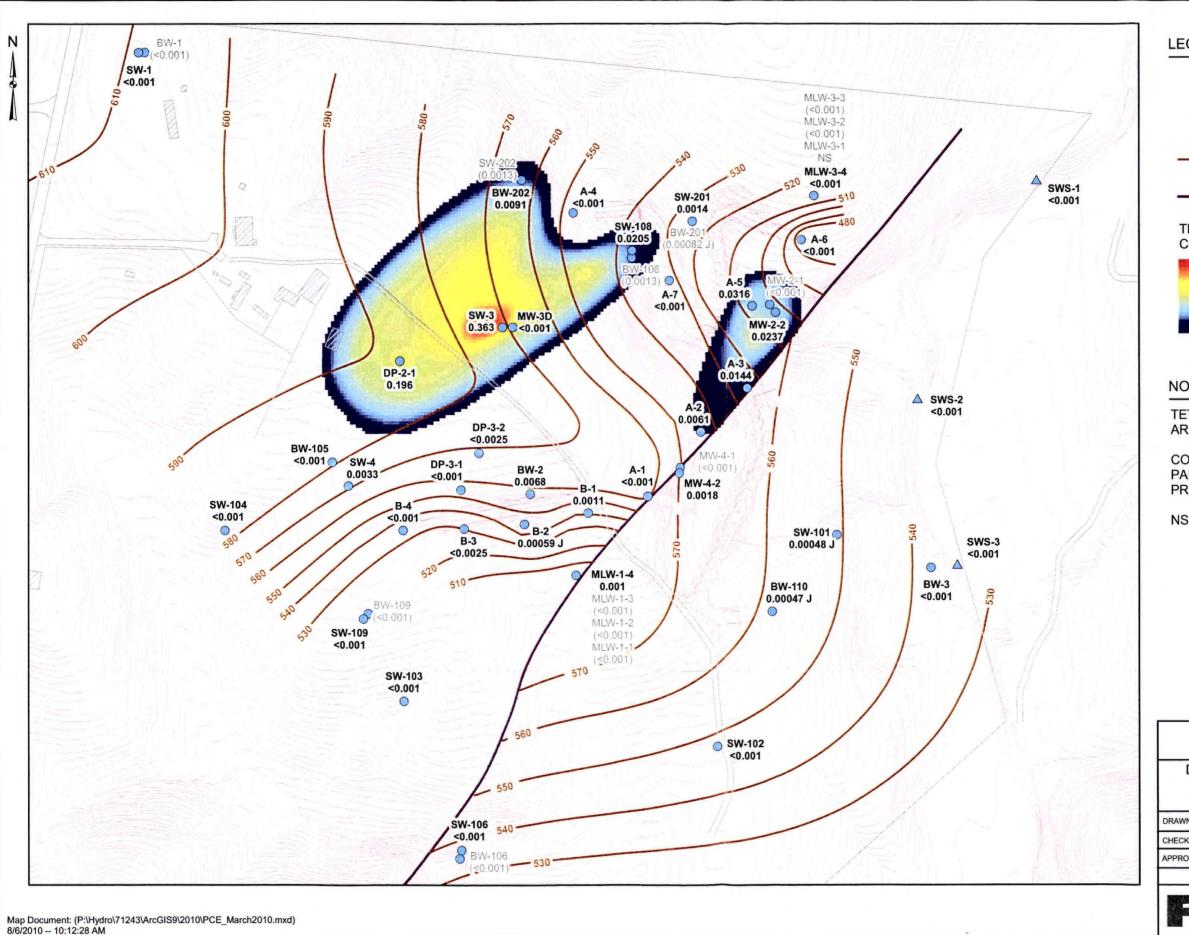
MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

POST INJECTION WATER TABLE CONFIGURATION MARCH 8, 2010

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71243.63
CHECKED BY: LMC		DATE: AUGUST 2010
APPROVED BY: SWW		FIGURE NO.:
		3-2



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MONITORING WELL

SURFACE WATER SAMPLE LOCATIONS

TOP OF BEDROCK ELEVATION CONTOUR

FAULT

TETRACHLOROETHENE CONCENTRATION

2 mg/L 0.1 mg/L

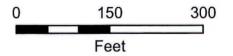
0.005 mg/L

NOTES

TETRACHLOROETHENE CONCENTRATIONS ARE POSTED IN mg/L

CONCENTRATIONS SHOWN IN PARENTHESES WERE NOT USED IN THE PREPARATION OF PLUME CONTOURS

NS - NOT SAMPLED



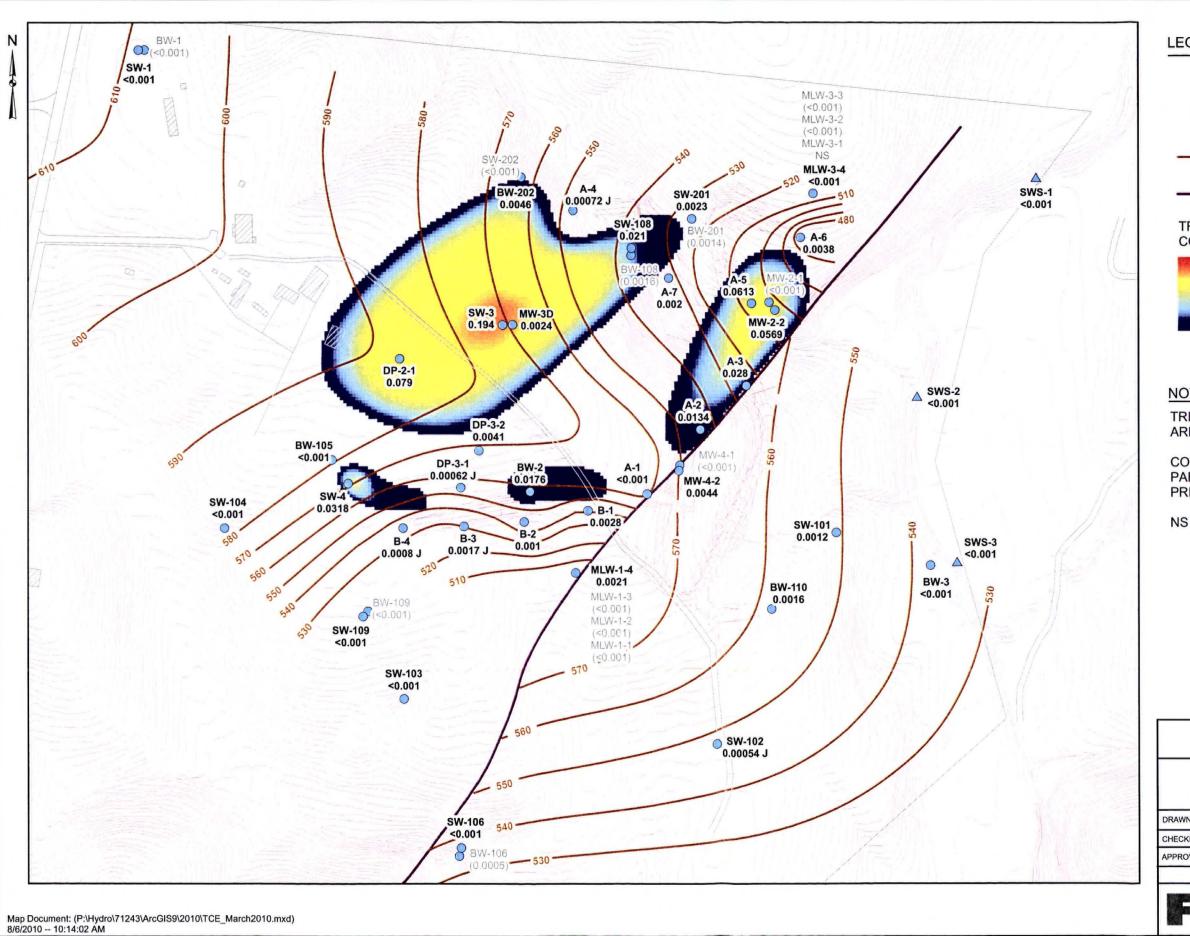
MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

DISTRIBUTION OF TETRACHLOROETHENE IN GROUNDWATER MARCH 2010

DRAWN BY: TLH
SCALE AS NOTED
PROJECT NO.: 71243.63
DATE: AUGUST 2010
APPROVED BY: SWW
FIGURE NO.:
3-3



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MONITORING WELL

SURFACE WATER SAMPLE LOCATIONS

 TOP OF BEDROCK ELEVATION CONTOUR

FAULT

TRICHLOROETHENE CONCENTRATION

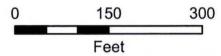
0.5 mg/L 0.05 mg/L 0.005 mg/L

NOTES

TRICHLOROETHENE CONCENTRATIONS ARE POSTED IN mg/L

CONCENTRATIONS SHOWN IN PARENTHESES WERE NOT USED IN THE PREPARATION OF PLUME CONTOURS

NS - NOT SAMPLED



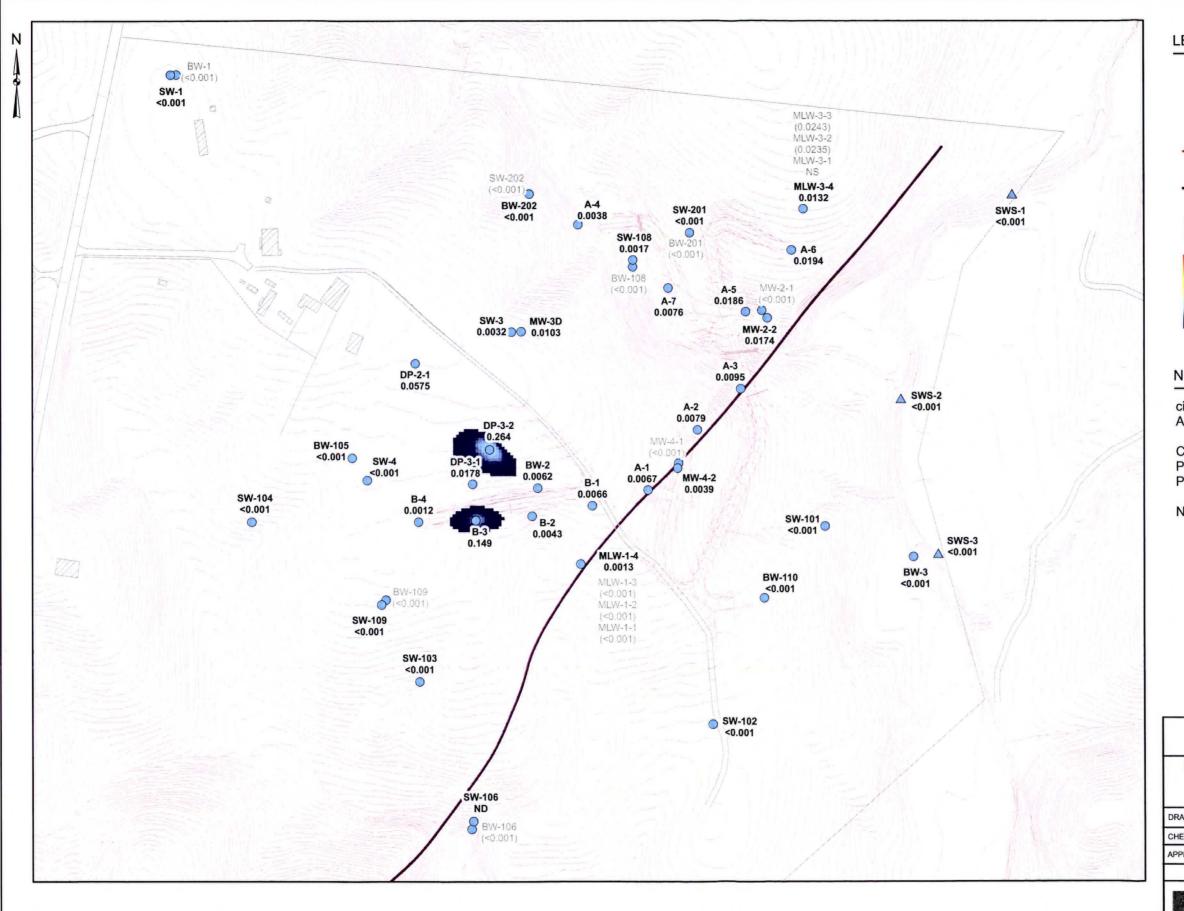
MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

DISTRIBUTION OF TRICHLOROETHENE IN GROUNDWATER MARCH 2010

		•
DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71243.63
CHECKED BY: LMC		DATE: AUGUST 2010
APPROVED BY: SWW		FIGURE NO.:
		3-4



Patewood Plaza One, Suite 100 30 Patewood Drive Greenville, SC 29615-3535 Phone: 864-281-0030 FAX: 864-281-0288



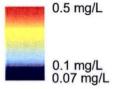
MONITORING WELL

△ SURFACE WATER SAMPLE LOCATIONS

TOP OF BEDROCK ELEVATION CONTOUR

FAULT

cis-1,2-DICHLOROETHENE CONCENTRATION

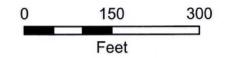


NOTES

cis-1,2-DICHLOROETHENE CONCENTRATIONS
ARE POSTED IN mg/L

CONCENTRATIONS SHOWN IN PARENTHESES WERE NOT USED IN THE PREPARATION OF PLUME CONTOURS

NS - NOT SAMPLED



MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

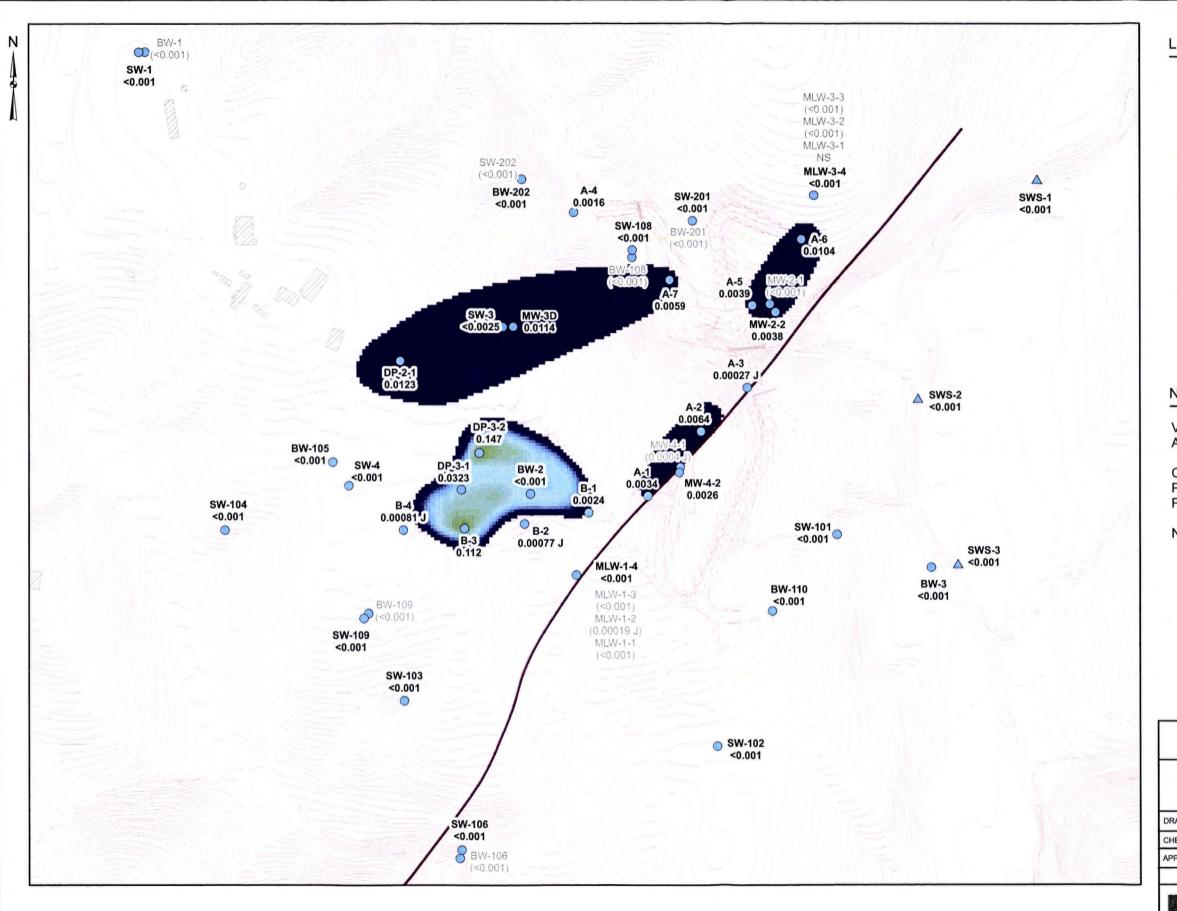
DISTRIBUTION OF cis-1,2-DICHLOROETHENE IN GROUNDWATER MARCH 2010

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71243.63
CHECKED BY: LMC		DATE: AUGUST 2010
APPROVED BY: SWW		FIGURE NO.:
		3-5



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Map Document: (P:\Hydro\71243\ArcGIS9\2010\c12DCE_March2010.mxd) 8/6/2010 -- 10:19:12 AM



MONITORING WELL

SURFACE WATER SAMPLE LOCATIONS

> TOP OF BEDROCK **ELEVATION CONTOUR**

- FAULT

VINYL CHLORIDE CONCENTRATION

0.5 mg/L

0.05 mg/L

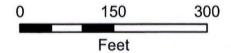
0.002 mg/L

NOTES

VINYL CHLORIDE CONCENTRATIONS ARE POSTED IN mg/L

CONCENTRATIONS SHOWN IN PARENTHESES WERE NOT USED IN THE PREPARATION OF PLUME CONTOURS

NS - NOT SAMPLED



MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

DISTRIBUTION OF VINYL CHLORIDE IN GROUNDWATER MARCH 2010

DRAWN BY: TLH	SCALE AS NOTED	PROJECT NO.: 71243.63
CHECKED BY: LMC		DATE: AUGUST 2010
APPROVED BY: SWW		FIGURE NO.:
	_	3-6



Patewood Plaza One, Suite 100 30 Patewood Drive Greenville, SC 29615-3535 Phone: 864-281-0030 FAX: 864-281-0288

Map Document: (P:\Hydro\71243\ArcGIS9\2010\VC_March2010.mxd) 8/6/2010 -- 10:22:50 AM

Table 3-1
Site-specific Constituents of Concern and Remediation Goals

voc	GROUNDWATER REMEDIATION GOAL (mg/L)
Acetone	0.35
Benzene	0.005
2-Butanone	2.0
Chloromethane	0.063
Chloroform	0.1
1,1-DCA	0.35
1,2-DCA	0.005
1,1-DCE	0.007
1,2-DCE	cis: 0.07 and trans: 0.1
Methylene Chloride	0.005
PCE	0.005
1,1,1-Trichloroethane	0.2
1,1,2-Trichloroethane	0.005
Trichloroethane	0.005

Table 3-2
Reductive Dechlorination Indicator Parameters

VOCs	
Chloroethane	Vinyl Chloride
Dissolved Metals	
Ferrous iron	Manganese
Anions	
Sulfate	
VFAs	
Acetic acid	Propionic acid
Butyric acid	Pyruvic acid
Lactic acid	
Field Parameters	
Specific conductance (SC)	Dissolved oxygen (DO)
рН	Oxidation-reduction potential (ORP)
Temperature	

Table 3-3
Groundwater Elevation Measurements

		- DATE MEASURED/WATER DEPTH AND ELEVATION									
	TOP OF	01/	20/09	03/	08/10						
WELL NAME	CASING ELEVATION (ft)	DEPTH TO WATER (ft)	WATER LEVEL ELEVATION (ft)	DEPTH TO WATER (ft)	WATER LEVEL ELEVATION (ft)						
A-1	651.73	57.58	594.15	55.40	596.33						
\-2	643.31	54.50	588.81	53.21	590.10						
\- 3	604.67	18.56	586.11	16.85	587.82						
4-4	618.09	16.30	601.79	14.16	603.93						
A- 5	603.21	13.19	590.02	10.98	592.23						
4-6	632.09	43.49	588.60	41.19	590.90						
4-7	605.10	12.34	592.76	10.09	595.01						
B-1	660.55	67.70	592.85	64.36	596.19						
B-2	661.56	65.90	595.66	62.79	598.77						
B-3	661.84	64.10	597.74	60.71	601.13						
B-4	665.81	66.21	599.60	62.58	603.23						
 BW-1	689.90	58.65	631.25	55.34	634.56						
BW-2	662.99	68.79	594.20	62.79	600.20						
BW-3	574.82	6.74	568.08	6.68	568.14						
BW-4	564.32	5.90	558.42	5.70	558.62						
BW-105	671.55	65.84	605.71	61.38	610.17						
BW-106	595.76	3.20	592.56	1.11	594.65						
BW-108	605.64	8.46	597.18	6.03	599.61						
BW-109	661.47	63.05	598.42	59.43	602.04						
BW-110	626.36	48.45	577.91	47.12	579.24						
BW-201	618.29	25.74	592.55	23.17	595.12						
BW-202	636.79	31.55	605.24	29.14	607.65						
DP-2-1	677.84	71.60	606.24	68.74	609.10						
DP-3-1	665.78	66.85	598.93	63.18	602.60						
DP-3-2	672.83	72.30	600.53	68.67	604.16						
MLW-1-1	653.32		587.49		589.86						
MLW-1-2	653.32		590.11		593.01						
MLW-1-3	653.32		592.10		595.36						
MLW-1-4	653.32		592.62		595.89						
MLW-3-1	636.68		584.43		586.97						
MLW-3-1	636.68		584.10		586.74						
MLW-3-3	636.68		585.28		587.87						
MLW-3-4	636.68		584.53		587.15						
MW-2-1	602.80	13.72	589.08	11.44	591.36						
MW-2-2	602.42	13.63	588.79	11.86	590.56						
MW-3D	670.28	70.45	599.83	66.90	603.38						
MW-4-1	644.80	56.66	588.14	55.33	589.47						
MW-4-2	644.60	54.94	589.66	54.08	590.52						
· · · · · · · · · · · · · · · · · · ·			 		-}						
PZ-1 PZ-101	575.41 688.49	7.46	567.95	7.29 57.20	568.12 631.29						
		Dry 50.20	NA 631.19								
SW-1 SW-3	690.47	59.29	631.18	56.06	634.41						
	671.31	72.85	598.46	70.59	600.72						
SW-4	671.39	69.28	602.11	65.35	606.04						
SW-101	604.18	32.61	571.57	32.05	572.13						
SW-102	620.07	41.20	578.87	39.26	580.81						
SW-103	635.68	41.13	594.55	35.83	599.85						
SW-104	649.85	30.17	619.68	20.64	629.21						
SW-106	596.12	11.93	584.19	8.90	587.22						
SW-108	605.28	10.13	595.15	8.15	597.13						
SW-109	661.26	Dry	NA SOLOL	59.39	601.87						
SW-201	620.68	26.07	594.61	22.98	597.70						
SW-202	636.93	33.20	603.73	29.81	607.12						

Table 3-4
Summary of Biennial Groundwater Quality Results

<u> </u>	2511531151011	A-1	Ä	1-2		A-3	,	N-4		A-5		A	-6		A-7	
PARAMETER (1)	REMEDIATION TARGET ⁽²⁾	03/17/10	01/30/09	03/18/10	02/04/09	03/22/10	02/05/09	03/23/10	02/05/09	03/24/10	(DU-10102) 03/24/10	02/06/09	03/25/10	02/05/09	(DU-09102) 02/06/09	03/26/10
VOCs			- "		·											
1,1,1-TCA	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-TCA	0.005	<0.001	<0.001	<0.001	0.002	0.0018	<0.001	<0.001	0.0015	0.0012	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-DCA	0.35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-DCE	0.007(3)	<0.001	<0.001	0.00057 J	0.0027	0.0024	<0.001	<0.001	0.0031	0.0028	0.0024	0.00063 J	0.00077 J	<0.001	<0.001	<0.001
1,2-DCA	0.005	0.0014	0.0021	0.0017	0.0015	0.00076 J	0.00094 J	0.0012	0.0042	0.0015	0.0013	0.0018	0.0012	0.00055 J	0.00054 J	0.0023
2-Butanone	2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acetone	0.35	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 L1	<0.02	<0.02 L1	<0.02	<0.02	<0.02 L1	<0.02	<0.02 L1	<0.02 L1	0.005 J
Benzene	0.005	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
Chloroethane		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	0.1	<0.005	<0.005	< 0.005	0.004 J	0.0034 J	<0.005	<0.005	0.0034 J	0.0055	0.0051	<0.005	<0.005	< 0.005	<0.005	<0.005
Chloromethane	0.063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001
cis-1,2-DCE	0.07	0.0067	0.0056	0.0079	0.0115	0.0095	0.0041	0.0038	0.0463	0.0186	0.0191	0.0239	0.0194	0.003	0.0032	0.0076
Methylene chloride	0.005	<0.00049 Z3Ju	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCE	0.005	<0.001	<0.001	0.0061	0.0168	0.0144	<0.001	< 0.001	0.0173	0.0316	0.0294	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-DCE	0.1	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	0.00091 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TCE	0.005	0.001	0.0017	0.0134	0.0376	0.028	0.0016	0.00072 J	0.0571	0.0613	0.0593	0.0017	0.0038	0.0005 J	0.00065 J	0.0012
Vinyl chloride	0.002(3)	0.0034	0.0087	0.0064	<0.001	0.00027 J	0.0017	0.0016	0.0132	0.0039	0.0039	0.0149	0.0104	0.0014	0.0015	0.0059
Metals			•													•
Manganese, dissolved		4.35	6.03	4.33	0.4	0.112	2.61	3	1.3	0.61	0.622	3.17	3.43	2.93	2.92	3.08 P6
Wet Chemistry			· · · ·									- -				•
Sulfate		4.1	5.4	4.4	4.2	3.9 J	4.5	4.5	5.6	5.0_	5.0	5.3	5.0	5.1	5.2	4.7
VFAs												 				
Acetic acid		4.5	<1	<1	<2.2 u	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1 Jj-
Butyric acid		<1	<1	<1	<1	0.8 J	<0.3 Ju	<1	<1	<1	<1	<1	<1	<1	<1	<1 uj
Lactic acid		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25 uj
Propionic acid		<1	<1	0.4 J	<0.2 Ju	<1	<1	<1	<1	1 J	<1	<0.7 Ju	<1	<1	<1	<1 uj
Pyruvic acid		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 _	<10	<10 uj
Field Measurements																
Conductance, specific (µS/cm)		422	300	235	157	147	193	196	167	149	NA	218	211	224	NA	229
Dissolved oxygen (mg/L)		4.40	0.63	3.38	1.16	0.75	0.47	0.15	0.65	0.89	NA	0.51	0.09	0.84	NA	0.42
Ferrous iron, dissolved		1.5	0.8	1	0	0	1.0	1.5	0.8	0.5	NA	0.9	0	0.9	NA	1.5
ORP (mV)		-128 ⁽⁴⁾	-37.2	145.6 ⁽⁴⁾	110.1	105.6 ⁽⁴⁾	29.0	-139.4 ⁽⁴⁾	44.7	151.5 ⁽⁴⁾	NA	44.0	30.5 ⁽⁴⁾	-4.9	NA	4.5(4)
pH (s.u.)		6.97	7.02	6.58	6.61	6.21	6.83	6.52	6.90	6.34	NA	6.79	6.53	7.24	NA	6.67
Temperature (°C)		17.63	16.68	16.94	16.38	15.95	16.16	17.09	16.60	19.23	NA	16.57	17.66	16.80	NA	18.07

Analytical results are reported in mg/L unless otherwise noted.

- Record of Decision EPA/ROD/R04-91/081 (USEPA; May 28, 1991).
- State Primary Drinking Water Regulations: R.61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- Concentration considered an estimate based on data validation.
- j- Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contorl limits due to a parent sample concentration notably higher than the spike level.
- Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- 23 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Bolding indicates constituent detection.

Table 3-4
Summary of Biennial Groundwater Quality Results

	REMEDIATION		B-1	, E	-2	·	B-3	'В-	4	BW-	1	BW-2	
PARAMETER ⁽¹⁾	TARGET	01/21/09	03/09/10	01/22/09	03/10/10	01/22/09	03/10/10	01/22/09	03/11/10	02/06/09	03/31/10	01/27/09	03/16/10
VOCs												_	
1,1,1-TCA	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-TCA	0.005	<0.001	<0.001	0.0065	< 0.001	0.0156	0.0082	<0.001	<0:001	<0.001	<0.001	0.00082 J	0.00084 J
1,1-DCA	0:35	0.00083 J	<0:001	0.0025	<0.001	0.0032	0.0032	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-DCE	0.007(3)	<0.001	<0.001	0.0013	<0.001	0.0011	0.0028	<0.001	<0.001	<0.001	<0.001	0.00058 J	0.0011
1,2-DCA	0.005	0.0026	<0.001	0.0417	<0.001	0.277	0.101	<0:001	<0.001	<0.001	<0.001	0.00041 J	0.00037 J
2-Butanone	2	<0:02 L1	<0.02	<0.02 L1	<0.02	<0.02 L1	<0.05	<0.021L1!	<0:02	<0.02	<0.02	<0.02 L1	<0.02
Acetone	0:35	<0:02 L1	<0.02	<0.02 L1	<0.02	<0.02 L1	< 0.05	<0.02 L1	<0:02	<0.02 L1	<0.02	<0.02 L1	<0.02
Benzene	0.005	<0.001	<0:001	<0:001	<0.001	<0.001	< 0.0025	<0:001	<0:001	<0.001	<0.001	<0.001	<0.001
Chloroethane	I	<0.001	<0:001	<0:001	<0.001	< 0.001	<0.0025	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	0.1	<0.005	<0:005	<0:005	<0.005	<0.005	<0.0125	<0:005	<0:005	<0.005	< 0.005	<0.005	<0.005
Chloromethane	0.063	< 0.001	<0:001	<0:001	<0.001	<0.001	<0.0025	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-DCE	0.07	0.0113	0.0066	0.0498	0.0043	0.134	0.149	0.001	0.0012	<0.001	<0.001	0.0042	0.0062
Methylene chloride	0.005	<0.001	<0.00059 Z2, Z3Ju	<0.001	< 0.001	<0.001	<0.0016 Z2, Z3Ju	<0.001	<0:001	<0.001	<0.001	<0.001	<0.00044 Z3Ju
PCE	0.005	0.00045 J	0.0011	<0:001	0.00059 J	< 0.001	<0.0025	<0.001	<0.001	<0.001	< 0.001	0.0085	0:0068
trans-1,2-DCE	0.1	<0.001	<0.001	0.0022	< 0.001	0.0068	0.0043	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TCE	0.005	0.0021	0.0028	<0:001	0.001	<0.001	0.0017 J	<0:001	0.0008:J	<0.001	<0.001	0.0182	0:0176
Vinyl chloride	0.002(3)	0.0078	0.0024	0.0401	0.00077 J	0.195	0.112	0:00094 J	0.00081 J	<0.001	<0.001	<0.001	<0.001
Metals													
Manganese, dissolved		5.76	4.2	4:37	3.3	3.64	3.9	1.76	2.22	<0.00082 BJ u	0.776	0:0037 J	<0.0038 Ju
Wet Chemistry													
Sulfate	' 	4.2	4.1	7.0	6.6	5.2	4.2	3.2 J	3.1 J	1.4 J	2.2 J	1.6 J	2.8 J
VFAs													
Acetic acid		<1	' <1 M	<1	<1	<1	<1	<1	<1	<1	<1 uj	<1	<1<1
Butyric acid		<1	<1 M	<1	<1	<1	<1	<1	<1	<1	<1 uj	<1	<1
Lactic acid		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25 uj	<25	<25
Propionic acid		<1	<1 M	<1	<1	<1	0.6 J	<1	<1	<0.8 Ju	<1 uj	<1	1.3
Pyruvic acid		<10	<10	<10	<10	<1()	<10	<10	<10	<10	<10 uj	<10	<10
Field Measurements			-						•				
Conductance, specific (µS/cm)	'	231	210	298	228	324	300	132	119	97	96	! 101	111
Dissolved oxygen (mg/L)		0.64	0.12	0.44	0:19	0.28	0.15	0.49	0.43	6.74	7.14	5.34	5.19
Ferrous iron, dissolved	,	1.5	0.2	1.0	0.9	0.2	0.2	1.5	0:3	0	0	0	0
ORP (mV)		-129.1	8.8(4)	-161.4	-8.6 ⁽⁴⁾	-105.0	-35.8 ⁽⁴⁾	-30.3	-59.9 ⁽⁴⁾	108.2	89.7 ⁽⁴⁾	137.9	78.5 ⁽⁴⁾
pH (s:u:)		6.70	6:57	7.03	6.68	7.20	7.06	6:55	6.25	6.48	6.45	6.26	5.93
Temperature (°C)		16.91	17.81	17.91	17.22	18.25	17.17	17:25	16.98	17.75	18.52	17.91	18.22

Analytical results are reported in mg/L unless otherwise noted.

- Record of Decision EPA/ROD/R04:91/081 (USEPA; May 28, 1991).
- State Primary Drinking Water Regulations: R.61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- IB Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j Concentration considered an estimate based on data validation.
- ij- Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contorl limits due to a parent sample concentration notably higher than the spike level.
- u Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit,
- Z3 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- -- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Table 3-4
Summary of Biennial Groundwater Quality Results

	PENEDIATION	-B\	V-3	BV	V-4	BW	-105		BW-106		BW	-108
PARAMETER ⁽¹⁾	REMEDIATION TARGET ⁽²⁾	01/27/09	03/19/10	01/27/09	03/19/10	01/27/09	03/16/10	01/28/09	(DU-09101) 01/28/09	03/23/10	02/04/09	03/26/10
VOCs			<u> </u>									
1,1,1-TCA	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-TCA	0.005	<0.001	<0.001	<0.001	< 0.001	<0.001	<0:001	<0.001	<0:001	<0:001	<0.001	<0.001
1,1-DCA	0.35	<0.001	<0.001	< 0.001	<0.001	< 0.001	<0:001	<0.001	<0:001	<0:001	<0.001	<0.001
1,1-DCE	0:007(3)	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0:001	<0:001	<0.001	< 0.001
1,2-DCA	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0:001	<0.001	<0.001	<0.001
2-Butanone	2	<0:02 L1	<0.02	<0.02 L1	< 0.02	<0.02 L1	<0.02	<0.02 L1	<0.02'L1	<0.02	<0.02	<0.02
Acetone	0.35	<0.02 L1	<0:02	<0.02 L1	< 0.02	<0.02 L1	<0.02	<0:02 L1	<0.02 L1	<0.02	<0.02	<0.02
Benzene	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0:001	<0:001	<0.001	<0.001
Chloroethane		<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	< 0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	0:1	<0.005	<0.005	<0.005	<0.005	<0.005	<0:005	<0.005	<0:005	<0.005	<0.005	<0.005
Chloromethane	0.063	<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0:001	<0.001	<0.001	<0.001
cis-1,2-DCE	0.07	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
PCE	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0.001	<0.001	0:0018	0.0013
trans-1,2-DCE	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
TCE	0.005	<0.001	<0.001	<0.001	<0.001	. <0.001	<0.001	<0.001	0.00049 J	: 0.0005 J	0.0028	0.0016
Vinyl chloride	0.002(3)	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.001	· <0.001	<0.001	<0.001
Metals:												
Manganese, dissolved		<0.005	0:001 J	0.002 J	0.00072 J	0.0048 J	<0.0045 Ju	<0.005	0.00089 J	0.00041 J	0.236	0.108
Wet Chemistry												
Sulfate		4.5	4.8	8.2	8.3	1.4 J	2.0 J	2.5 J	2.5:J	3.1 J	4.6	5.6
VFAs												
Acetic acid		<1	<1	<1	2.3	<1	<1	<1	<1	<1	<1	1.1 j-
Butyric acid		<1.	2.9	<1	<1	<1	<1	<1.	<1	<1	<1 Ju	· <1 uj
Lactic acid		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25 uj
Propionic acid		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	l <1 uj
Pyruvic acid		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	⊱ <10 uj
Field Measurements			-							-		
Conductance, specific (µS/cm)		156	149	242	208	117	110	119	NA	123	165	181
Dissolved oxygen (mg/L)		2.88	4.13	1.86	1.83	4.61	8.15	4.82	NA	5.37	0.63	0.75
Ferrous iron, dissolved		.0	0	0	. 9:	0	0	0	NA	0	0	0
ORP (mV)		143.8	129.9 ⁽⁴⁾	125.8	120.4 ⁽⁴⁾	86.5	93.7 ⁽⁴⁾	197.2	NA	94 ⁽⁴⁾	101.7	1.4 ⁽⁴⁾
pH (s.u.)		6.42	6.33	6.88	6.85	6.23	5.92	6.38	NA	6.43	7.02	6.77
Temperature (°C)		15.85	16:54	15.05	15.29	18:99	17.88	15.81	NA	16.34	15.77	15.29

- Analytical results are reported in mg/L unless otherwise noted.
- ²⁾ Record of Decision EPA/ROD/R04-91/081 (USEPA; May 28, 1991).
- State Primary Drinking Water Regulations: R.61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j. Concentration considered an estimate based on data validation.
- j: Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M¹ Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4' Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contorl limits due to a parent sample concentration notably higher than the spike level:
- u Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- 23 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- -- Not available
- Concentration less than the Quantitation Limit or, not validated if accompanied by "u" qualifier.

Table 3-4
Summary of Biennial Groundwater Quality Results

i .	REMEDIATION	. B	W-109	В	W-110	BW	-201	BW	-202	DF	2-1	DP-3-1	
PARAMETER ⁽¹⁾	TARGET ⁽²⁾	01/28/09	03/30/10	02/04/09	03/30/10	02/03/09	03/24/10	01/30/09	3/31/2010	01/27/09	03/16/10	01/29/09	03/15/10
VOCs					· · · · · · · · · · · · · · · · · · ·					•	·		
√1,1,1-TCA	0.2	<0:001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.0025	<0:004	<0.001	<0.001
11,1,2-TCA	0.005	<0:001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0:004	<0.001	0.0013
1,1-DCA	0.35	<0:001	<0.001;	<0.001	<0.001	<0.00.1	<0.001	<0.001	<0.001	<0:0025	<0:004	0.0016	0.0021
(1,1-DCE	0.007 ⁽³⁾	<0:001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.0025	<0:004	<0.001	0.00064 J
1,2-DCA	0.005	<0:001	<0.001,	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	0.0024 J	0.0023 J	0.00057 J	0.0133
2-Butanone	-2	<0.02 L1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05 L1	<0.08	<0.02 L1	<0.02
Acetone	0.35	<0.02 L1	<0.02	<0:02	<0.02	<0.02	<0.02	<0.02	<0:02	<0.05 L1	<0.08	<0.02 L1	<0:02
Benzene	0.005	<0:001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0:001	0:0034	<0:004	<0.001	< 0.001
Chloroethane		< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.0025	<0.004	<0.001	< 0.001
;Chloroform	0.1	<0:005	<0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	<0:005	< 0.0125	<0.02	<0:005	<0.005
Chloromethane	0.063	<0:001	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.0025	<0:004	<0:001	< 0.001
cis-1,2-DCE	0.07	< 0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001	0.099	0.0575	0.0022	0.0178
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0:002 Z3Ju	< 0.001	<0.00047 Z3Ju
PCE	0.005	<0:001	<0.001	<0.001	0.00047 J	0.0019	0.00082 J	0.0068	0.0091	0.403	0.196	<0.001	<0:001
trans -1,2-DCE	0.1	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0:001	<0.0025	<0.004	0.0024	0.002
TCE	0.005	<0:001	<0.001	0.00078 J	0.0016	0.0026	0.0014	0.0047	0.0046	0.163	0.079	<0:001	0.00062 J
'Vinyl chloride	0.002(3)	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0:001	0.0175	0.0123	0.0029	0.0323
Metals			•										
Manganese, dissolved		0:0022 J	<0:00069 BJ u	0.0015 J	<0.0027 BJ u	0.0194	0.0248	0.0179	0.0232	1.47	1:99	2.24	2.7
Wet Chemistry	•		•						_				
Sulfate		1.4 J	2.2 J	9.4	7.7	6.9	2.5 J	5.1	4.4	9.7	7.9	4.4	3.2 J
VFAs						-					·		
Acetic acid		<1	<1 uj	<1	4.8 j-	·<1	·<1	<1	<1 uj	<1	. <1	<1	<1
Butyric acid		<1	<1 uj	<1	<1 uj	<0.7 Ju	<1	<1	<1 uj	<1	<1	<1	<1
Lactic acid		<25	<25 uj	<25	3.3 Jj-	<25	<25	<25	<25 uj	<25	<25	<25	<25
Propionic acid		<1	0:8 Jj-	<0.3 Ju	<1 uj	<0.5 Ju	·<1	·<1	<1 uj	<1	<1	<1	<1
Pyruvic acid		<10	<10 uj	·<10	<10 uj	<10	<10	<10	<10:uj	1.6 J	<10	<10	<10
Field Measurements													
Conductance, specific (µS/cm)		99	98	250	242	174	178	195	239	233	214	308	250
Dissolved oxygen (mg/L)		6.30	7.08	4.98	6.45	0.79	0.3	5.55	3:69	0.31	0.22	0:57	0:06
Ferrous iron, dissolved		0	0	0	0	0	0.05	-0	0	1.0	1.5	1.0	1.0
ORP (mV)		210.4	117.5	124.9	135.3	106.9	129.3 ⁽⁴⁾	84.5	131.1 ⁽⁴⁾	-108.7	32.05 ⁽⁴⁾	-124.7	-112,2 ⁽⁴⁾
pH (s:u.)		6.10	6.02	7.16	6.85	6.20	6.17	8.79	7.33	6.59	6.43	7.07	6.73
Temperature (°C)	 	16:87	17.26	16.66	16.88	15:99	16.91	15.64	15.45	18.23	17.72	19.21	18.39

Analytical results are reported in mg/L unless otherwise noted.

- (2) Record of Decision EPA/ROD/R04-91/081 (USEPA; May 28, 1991).
- (3) State Primary Drinking Water Regulations: R.61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j Concentration considered an estimate based on data validation.
- j- Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contort limits due to a parent sample concentration notably higher than the spike level.
- u Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or:imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- Z3 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- -- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Bolding indicates constituent detection.

Table 3-4
Summary of Biennial Groundwater Quality Results

	REMEDIATION		P-3-2	MLW-1-1	MLW-1-2	. MLW-1-3		MLW-1-4	MLW-3-2	MLW	1-3-3
PARAMETER ⁽¹⁾	TARGET ⁽²⁾	01/29/09	03/15/10	03/09/10	03/09/10	03/09/10	01/23/09	03/09-10/10	03/10/10	01/23/09	03/12/10
VOCs											·
1,1,1-TCA	0.2	<0.002	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-TCA	0.005	0.0109	0.0084	<0.001	<0.001	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-DCA	0:35	0.0018·J	0:002 J	0.00088 J	0:00087 J	0.0011	<0.001	<0.001	<0.001	0.00078 J	<0.001
1,1-DCE	0.007 ⁽³⁾	0.0011 J	0.0043	<0.001	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DCA	0:005	0.286	0.142	<0.001	<0:001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001
2-Butanone	2	<0.04 L1	<0.05	0.0129 J	0.0079 J	< 0.02	<0.02 L1	<0:02	<0.02	<0.02 L1	<0.02
Acetone	0.35	<0.04 L1	<0.05	0.0109 J	0.0113:J	0.0687	<0.02 L1	<0.02	0.007 J	<0.02 L1	< 0.02
Benzene	0:005	<0:002	<0.0025	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0.001	< 0.001
Chloroethane		<0.002	<0.0025	<0.001	<0.001	<0:001	<0.001	<0:001	<0.001	<0.001	< 0.001
Chloroform	0.1	<0:01	<0.0125	0.0021 J	0.002 J	0.0021 J	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	0:063	<0.002	<0.0025	<0.001	<0.001	<0:001	<0.001	<0:001	<0.001	<0.001	<0.001
cis-1,2-DCE	0:07	0.215	0.264	<0.001	<0.001	<0.001	<0.001	0.0013	0.0235	0.0349	0.0243
Methylene chloride	0:005	<0:002	<0.0012 Z3Ju	<0.0017 Z2, Z3u	<0.0017 Z2, Z3u	<0.0015 Z2, Z3u	<0.001	<0.00053 Z2, Z3Ju	<0.0005 Z2, Z3Ju	<0.001	<0.001
PCE	0:005	<0:002	<0.0025	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	< 0.001	<0.001
trans-1,2-DCE	0.1	0.0137	0.017	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0.001	< 0.001
TCE	0:005	0:0017 J	0.0041	<0.001	<0.001	<0.001	0:0009 J	0.0021	<0.001	< 0.001	<0.001
Vinyl chloride	0.002(3)	0.176	0.147	<0.001	0.00019 J	<0.001	<0.001	<0:001	<0.001	0.00023 J	<0.001
Metals											
Manganese, dissolved	-	3.25	3.38	0.0528	0.0955	·NA	0:0024 J	0:0021 J	0.0141	0.00091 J	0.0044 J
Wet Chemistry											
Sulfate _		3.4 J	3.5 M0Jj	<4.0	<4.0	181	9.3	9.5	<4.0	3.9 J	2:3 J
VFAs											
Acetic acid	-	<1	<1	7.2 M	24 M	<1 M	<1	<1 M	<1	<1	0.9 J
Butyric acid	-	<1	<1	<1 M	<1·M	<1.M	<1	<1 M	<1	<1	<1
Lactic acid		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Propionic acid		<1	<1	0.5 JM	4.4 M	2.6 M	<1	<1 M	<1	<1	<1
Pyruvic acid		<10	<10	<10	<10	2,5.J	<10	<10	<10	<10	4.5 J
Field Measurements											
Conductance, specific (µS/cm)	-	252	232	258	291	!NA	490·	NA NA	183	90	154
Dissolved oxygen (mg/L)	-	0:60	0:08	3:65	6.36	ıNA	3:83	NA	3.10	8.02	2.54
Ferrous iron, dissolved	-	0:8	1.5	0	0.15	NA	0	NA	NA	0	0
ORP (mV)	_	-76.9	-65.1 ⁽⁴⁾	63.2	90.0	NA.	113.1	NA	128:3	257.1	140:5
ρĤ:(s.u.)	_	7.05	6.66	6.51	7.10	NA	7.30	NA	6.35	6.49	6.29
Temperature (°C)	-	18:56	18:60	15.92	18.13	-NA	15.20	NA	14.30	15.16	15.71

⁽¹⁾ Analytical results are reported in mg/L unless otherwise noted.

- (2) Record of Decision EPA/ROD/R04-91/081 (USEPA; May 28, 1991).
- (3) State Primary Drinking Water Regulations: R.61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j Concentration considered an estimate based on data validation.
- j Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contort limits due to a parent sample concentration notably higher than the spike level.
- u Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- Z3 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- -- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Table 3-4
Summary of Biennial Groundwater Quality Results

	DEMEDIATION	MLV	V-3-4	MW	-2-1		MW-2-2		MW-3D		MW	-4-1
PARAMETER ⁽¹⁾	REMEDIATION TARGET(2)	01/23/09	03/12/10	02/03/09	03/12/10	02/03/09	03/09/10	01/29/09	03/31/10	(DU-10103) 03/31/10	01/30/09	03/12/10
VOCs											<u> </u>	
1,1,1-TCA	0.2	<0.001	< 0.001	<0.001	< 0.001	<0:001	<0.001	<0.05	: <0.001	<0.001	<0.001	<0.001
1,1,2-TCA	0.005	<0.001	<0.001	<0.001	< 0.001	0.00089 J	0.0016	< 0.05	. 0.00064 J	<0.001	. <0.001	< 0.001
1,1-DCA	0.35	<0:001	<0.001	< 0.001	< 0.001	<0:001	<0.001	<0:05	<0.001	<0.001	<0.001	<0.001
1,1-DCE	0.007 ⁽³⁾	<0.001	<0.001	0.00092 J	<0.001	0.003	0.0029	<0.05	<0.001	<0.001	<0.001	< 0.001
1,2-DCA	0.005	<0.001	<0.001	<0.001	0.00043 J	<0:001	0.0012	<0.05	0.0012	0.0014	<0.001	<0.001
2-Butanone	2	<0.02 L1	<0.02	<0.02	<0.02	<0.02	<0.02	<1 L1	<0.02	<0.02	<0.02	<0.02
Acetone	0.35	<0.02 L1	<0.02	<0.02	<0.02	<0.02	<0.02	<1 L1	<0.02	<0.02	<0.02	<0.02
Benzene	0.005	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	0.0688	<0.001	<0.001	<0.001	<0.001
Chloroethane		<0.001	<0.001	<0.001	<0.001	<0:001	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001
Chloroform	0.1	<0.005	<0.005	<0.005	< 0.005	0:0042 J	0.0049 J	<0.25	<0.005	<0.005	<0.005	<0.005
Chloromethane	0.063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0:05	<0.001	<0.001	<0.001	<0.001
cis-1,2-DCE	0.07	<0.001	0.0132	0.003	<0.001	0.0116	0.0174	<0:05	0:0103	0.011	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00044 Z2, Z3Ju	<0:05	<0.001	<0.001	<0.001	<0.001
PCE	0.005	<0.001	<0.001	0.0027	<0.001	0.0231	0.0237	<0:05	<0.001	<0.001	<0.001	<0.001
trans-1,2-DCE	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0:05	<0.001	<0.001	<0.001	<0.001
TCE	0.005	<0.001	<0.001	0.0079	<0.001	0.0564	0.0569	<0.05	0:0024	0.0023	<0.001	<0.001
Vinyl chloride	0:002(3)	<0.001	<0.001	<0.001	<0.001	0.0013	0.0038	<0:05	0.0114	0.0123	0.00023 J	0.0004 J
Metals												
Manganese, dissolved		0.0117	NA	0.128	0.0558	1.96	1.36 P4	2.2	2.74	2.74	0.604	0.496
Wet Chemistry	·											
Sulfate		2.3 J	2.0 J	2.4 J	12.1	5.3	5.4	19.9	7.5	7.7	8.9	3.6 J
VFAs												
Acetic acid		<1	<1	<1 Ju	<1	<1	<1 M	<1	<1 uj	<1 uj	<1	<1
Butyric acid		<1	<.1	<1	<1	<1	<1 M	<1	<1 uj	<1 uj	<1	<1
Lactic acid	-	<25	<25	<25	<25	<25	<25	<25	<25 uj	<25 uj	<25	<25
Propionic acid	_	<1	<,1	<0.6 Ju	<1	<1	<1 M	<1	<1 uj	<1 uj	<0.4 Ju	1.6
Pyruvic acid	_	<10	1.7 J	<10	<10	<10	<10	<10 ⁻	<10 uj	<10 uj	<10	<10
Field Measurements									•			
Conductance, specific (µS/cm)		48	NA	656	436	171	163	507	295	NA	826	475
Dissolved oxygen (mg/L)		7.40	NA	0.60	0.70	0.84	0.59	0.24	0.22	NA	0.84	0.25
Ferrous iron, dissolved		0	NA	1	0.3	3	>1.0	1.5	0.8	NA	0.8	0.8
ORP (mV)		338.9	NA	-103.4	139.6 ⁽⁴⁾	12.3	128,4 ⁽⁴⁾	-122.4	-155.8 ⁽⁴⁾	NA	-83.3	-94.7 ⁽⁴⁾
pH (s.u.)		6.64	NA	8.10	7.50	6.82	6.43	7:07	7.03	NA	7.45	7.22
Temperature (°C)	_	14.79	NA	18.92	16.98	17.73	18.18	18.40	18.77	NA	17.47	17.78

- Analytical results are reported in mg/L unless otherwise noted.
- Record of Decision EPA/ROD/R04-91/081 (USEPA; May 28, 1991).
- State Primary Drinking Water Regulations: R.61-58 (SCIDHEC; August 28, 2009).
- (4) ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j Concentration considered an estimate based on data validation.
- ij- Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contorl limits due to a parent sample concentration notably higher than the spike level:
- u Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- Z3 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Table 3-4
Summary of Biennial Groundwater Quality Results

· · · · · · · · · · · · · · · · · · ·	DEMEDIATION	·	MW-4-2		SW-1		SV	V-3	SV	V-4	sw	101	8	W-102
PARAMETER ⁽¹⁾	REMEDIATION : TARGET ⁽²⁾	01/30/09	03/12/10	(DU-10101) 03/12/10	02/06/09	03/31/10	01/29/09	03/31/10	01/28/09	03/16/10	02/03/09	03/24/10,	02/03/09	03/30/10
VOCs			 					-						
1,1,1-TCA	0.2	<0:001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.0025	0.0096	0.0076	<0.001	<0.001	<0.001	<0:001
1,1,2-TCA	0.005	<0:001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.0025	0:0022	.0.0027	<0.001	<0.001	<0.001	<0.001
1,1-DCA	0:35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.0025	0:0014	0.0012	<0:001	<0.001	<0.001	<0:001
1,1-DCE	0.007 ⁽³⁾	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.002	<0.0025	0:0307	0.0163	<0.001	<0.001	<0.001	<0.001
1,2-DCA	0:005	0.0021	0.0011	0.0011	<0.001	<0.001	<0.002	<0.0025	0.00082 J	0.00065 J	<0.001	<0.001	<0.001	<0.001
2-Butanone	2	<0.02	<0.02	<0.02	<0.02	<0:02	<0:04 L1	<0.05	<0.02 L1	<0.02	<0:02	<0.02	<0:02	<0.02
Acetone	0.35	<0.02	<0.02	<0.02	<0.02 L1	<0:02	<0:04 L1	<0.05	<0.02 L1	<0.02	<0.02	<0.02	<0:02	<0.02
Benzene	0:005	<0:001	<0.001	<0.001	<0.001	<0:001	<0.002	<0.0025	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001
Chloroethane		<0:001	<0.001	< 0.001	<0.001	<0:001	<0.002	< 0.0025	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
Chloroform	0.1	<0.005	< 0.005	< 0.005	<0.005	<0:005	<0.01	<0.0125	0.0099	0.0081	<0:005	<0.005	< 0.005	<0.005
Chloromethane	0:063	<0.001	<0.001	<0.001	<0.001	<0:001	<0.002	<0.0025	<0.001	<0.001	<0.001	<0.001	<0:001	<0.001
cis -1,2-DCE	0.07	0.0018	0.0039	0.0039	<0.001	<0:001	0.006	0.0032	<0.001	<0.001	<0:001	<0.001	<0:001	<0.001
Methylene chloride	0.005	< 0.001	<0.00045 Z2, Z3Ju	<0.001	<0.001	<0:001	<0.002	<0.0025	<0.001	<0.001	<0:001	< 0.001	<0:001	<0.001
PCE	0:005	<0.001	0.0018	0.0018	<0.001	<0:001	. 0.274	0.363	0.0038	0.0033	<0:001	0.00048 J	<0:001	<0.001
trans-1,2-DCE	0.1	<0.001	<0.001	<0.001	<0.001	<0:001	<0.002	<0.0025	< 0.001	<0.001	<0:001	<0.001	<0:001	<0.001
TCE	0:005	<0.001	0.0044	0.0045	<0.001	<0.001	0.18	0.194	0:0398	0.0318	0.00077 J	0:0012	<0:001	_ 0.00054 J
Vinyl chloride	(0.002 ⁽³⁾	0.0066	0.0026	0.0029	<0.001	<0:001	<0.002	<0.0025	<0.001	<0.001	<0:001	<0.001	<0:001	< 0.001
Metals			•			•								
Manganese, dissolved		4.32	4.07	4.11	<0.0044 BJ u	0.0083	0.66	0.103	0.375	0.325	0.0125	0:0157	0.00098 J	<0.0032 BJ ü
Wet Chemistry	•													
Sulfate		7.5	4.7	4.7	1.4 J	<4.0	3.5 J	2.1 J	1.4 M0Jj	<4:0	5.3	5.4	4.2	4.4
VFAs								•						
Acetic acid		<1	<1	<1	<1	<1 uj	<1	4.7 j-	<1	<1	<1	<1	<1	<1.uj
Butyric acid		<1	<1	<1	<1	0.8 Jj-	<1	<1 uj	<1	<1	<1	<1	<1	<1 uj
Lactic acid		<25	<25	<25	<25	<25.uj	<25	<25 uj	<25	<25	<25	<25	<25	<25 uj
Propionic acid		<1	<1	<1	<0:6 Ju	<1 uj	<1	<1 uj	<1	<1	<1	0.6 J	<1	<1 uj
Pyruvic acid		<10	<10	<10	<10	<10 uj	<10	<10 uj	<10	<10	<10	<10	<10	<10 uj
Field Measurements														
Conductance, specific (µS/cm)		447	308	NA	71	69	114	90	108	101	116	211	256	276
Dissolved oxygen (mg/L)		1.10	0.37	NA	7.41	8.80	4.08	6.77	5.44	9.44	4:99	4.40	3.05	1.96
Ferrous iron, dissolved		1.0	0.8	NA	0.1	0:05	0	0.05	0	0	0	0	0	_0.05
ORP (mV)		-51.7	-45.5 ⁽⁴⁾	NA	128.0	70.8 ⁽⁴⁾	53:4	114.2 ⁽⁴⁾	230.4	74.6 ⁽⁴⁾	118.7	147.7	83.7	151.3
pH (s.u.)	-	7.02	6.67	NA	6.21	6.36	6.50	6.35	5.83	5.69	6.50	6.45	6:47	6.16
Temperature (°C)		15.96	17.37	NA	16.80	16.39	13:87	16.25	15.12	15.94	15.19	15.71	16.51	17.63

- Analytical results are reported in mg/L unless otherwise noted.
- Record of Decision EPA/ROD/R04-91/081. (USEPA; May 28, 1991).
- State Primary Drinking Water Regulations: R:61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j Concentration considered an estimate based on data validation.
- j- Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contorl limits due to a parent sample concentration notably higher than the spike level.
- u Laboratory.reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- 23 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- -- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Table 3-4
Summary of Biennial Groundwater Quality Results

	PEMEDIATION	SW	-103	SW-	104	SW-	106	SW	/-108	SW-109	sw	-201	sw-	202
PARAMETER ⁽¹⁾	REMEDIATION TARGET ⁽²⁾	01/28/09	03/30/10	01/28/09	03/30/10	01/21/09	03/23/10	02/04/09	3/26/2010	03/30/10	02/03/09	03/23/10	01/29/09	03/25/10
VOCs														
1,1,1-TCA	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-TCA	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-DCA	0.35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-DCE	0.007 ⁽³⁾	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DCA	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone	2	<0.02 L1	<0.02	<0.02 L1	<0.02	<0.02 L1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 L1	<0.02
Acetone	0.35	<0.02 L1	<0.02	<0.02 L1	<0.02	<0.02 L1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 L1	<0.02
Benzene	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	<u> </u>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	0.1	< 0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	0.0016 J	<0.005	0.0017 J	<0.005	<0.005	<0.005
Chloromethane	0.063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-DCE	0.07	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	0.0011	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PCE	0.005	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	0.0141	0.0205	<0.001	0.003	0.0014	0.002	0.0013
trans-1,2-DCE	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TCE	0.005	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	0.0159	0.021	<0.001	0.0062	0.0023	0.00064 J	<0.001
Vinyl chloride	0.002(3)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Metals						-								
Manganese, dissolved	_	0.117	0.0337	0.0172	0.0046 BJ	0.0072	0.135	0.0795	0.0164	0.017	0.016	0.0011 J	0.106	0.065
Wet Chemistry								_						
Sulfate		<4.0	<4.0	1.5 J	3.4 J	8.2	8.6	4.6	3.1 J	2.1 J	1.7 J	7.7	2.1 J	2.9 J
VFAs											_			
Acetic acid	_	<1	<1 uj	<1	<1 uj	<1	<1	<1	<1 uj	<1 uj	<1	<1	<1	<1
Butyric acid	_	<1	<1 uj	<1	<1 uj	<1	<1	<1	<1 uj	1.5 j-	<1	<1	<1	<1
Lactic acid	-	<25	<25 uj	<25	<25 uj	<25	<25	<25	11 Jj-	<25 uj	<25	2.6 J	<25	<25
Propionic acid		<1	<1 uj	<1	<1 uj	<1	<1	<1	<1 uj	<1 uj	<0.3 Ju	<1	<1	<1
Pyruvic acid		<10	<10 uj	<10	<10 uj	<10	<10	<10	<10 uj	<10 uj	<10	<10	<10	3 J
Field Measurements											-			
Conductance, specific (µS/cm)		78	59	70	71	180	74	131	107	81	129	99	69	62
Dissolved oxygen (mg/L)		6.80	6.70	6.50	6.33	7.07	0.35	3.61	3.63	7.94	5.27	4.52	2.24	4.14
Ferrous iron, dissolved		0	0	0	0.05	0	0	0.2	0	0.05	0	0	0	0
ORP (mV)		212.7	151.2	241.7	108.9	184.9	109,7 ⁽⁴⁾	118.0	226.8	131.5	107.7	145.8 ⁽⁴⁾	46.9	177.4 ⁽⁴⁾
pH (s.u.)		5.89	5.51	5.74	5.55	6.21	5.58	6.42	5.91	6.06	6.09	5.88	5.84	5.79
Temperature (°C)	-	15.97	15.99	15.81	17.98	14.23	12.21	12.62	13.03	16.29	15.63	15.58	14.92	17.07

- Analytical results are reported in mg/L unless otherwise noted.
- (2) Record of Decision EPA/ROD/R04-91/081 (USEPA; May 28, 1991).
- State Primary Drinking Water Regulations: R.61-58 (SC DHEC; August 28, 2009).
- ORP re-measured 05/12/10 due to faulty instrument.
- B Analyte was detected in the associated method blank.
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- j Concentration considered an estimate based on data validation.
- j- Concentration considered an estimate biased low based on data validation.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M Elevated detection limit due to matrix effects.
- M0 Matrix spike recovery and/or matrix spike duplicate recover was outside laboratory control limits.
- P4 Sample field preservation does not meet USEPA or method recommendations for this analysis.
- P6 Matrix spike recovery was outside laboratory contorl limits due to a parent sample concentration notably higher than the spike level.
- u Laboratory reported detection not validated during data validation process.
- uj Not detected; quantitation limit may be inaccurate or imprecise.
- Z2 Analyte present in the associated method blank above the detection limit.
- Z3 Methylene chloride is a common laboratory contaminant. Results from this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.
- NA Not analyzed
- -- Not available
- Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Table 3-5
Summary of Biennial Surface Water Quality Results

	STATION/SAMPLE DATE												
PARAMETER ⁽¹⁾		SWS-1		1	SWS-2			SWS-3					
	06/30/08	01/23/09	03/18/10	06/30/08	01/23/09	03/18/10	06/30/08	01/23/09	3/18/2010				
VOCs													
1,1,1-TCA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
1.1.2-TCA	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001				
1.1-DCA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
1.1-DCE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
1.2-DCA	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
2-Butanone	<0.005	<0.02L1	<0.02	<0.005	<0.02L1	<0.02	<0.005	<0.02L1	<0.02				
Acetone	<0.005L3	<0.02L1	<0.02	<0.005L3	<0.02L1	<0.02	<0.005L3	<0.02L1	<0.02				
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
Chloromethane	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
cis -1,2-DCE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Methylene chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00045Z3Ju	<0.001	<0.001	<0.00049Z3Ju				
PCE	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
trans -1,2-DCE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
TCE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001				
Field Parameters													
Conductance, specific (µs/cm)	64.0	55.2	52	73.4	57	56	74.1	138	47				
pH (s.u.)	6.97	7.33	7.60	6.82	7.27	7.58	6.62	7.30	7.45				
Temperature (°C)	22.9	6.4	13.00	24.3	6.10	13.09	22.9	8.50	13.46				

Analytical results are reported in mg/L unless otherwise noted.

NA Not analyzed.

Concentration less than the Quantitation L mit or not validated if accompanied by "u" qualifier.

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit,

L1 Analyte recovery in the laboratory control sample was above the QC limits. Results may be biased high.

L3 Analyte recovery in the LCS exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Z3 Methylene Chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

Section 4 Enhanced Reductive Dechlorination Performance Evaluation

ERD was initially implemented at the site as an ICM to determine if *in situ* anaerobic microbes could be stimulated to grow and treat residual levels of VOC observed at the site and accelerate attainment of the groundwater remediation goals established for the site. The objectives of ERD treatment at the site include the following:

- Establish reducing conditions within known former VOC source areas across the site and within subsurface groundwater locations to facilitate growth of anaerobic microbes responsible for ERD.
- Limit lateral and vertical migration and transport of chlorinated compounds in the site groundwater.
- Promote active treatment of residual VOCs in groundwater to facilitate and augment naturally occurring attenuation processes.

Multiple lines of evidence have been acquired and used to assess the overall performance of ERD treatments in achieving these remedial objectives. These lines of evidence include assessment and evaluation of site-wide VOC concentrations and distribution, observed changes in the presence and absence of PCE/TCE daughter products generated during ERD, and observed changes in the groundwater geochemistry.

Data evaluation included preparation of VOC distribution maps, time versus concentration graphs and molar ratio graphs. Time versus concentration graphs (Appendix B) were prepared using one-half the detection limit for constituents reported as not detected at a detection limit at or below their respective clean-up goal. RMT's use of one-half the detection limit is considered a standard practice in data trend evaluation, to account for the potential presence of a constituent below the analytical detection limit. Molar ratio graphs (Appendix C) were prepared by assigning zero to constituents reported as not detected at a detection limit at or below the clean-up goal. Zero was assigned to non-detected constituents to prevent the mistaken conclusion that daughter products had been generated in samples where daughter products were not actually detected. VOC graphs and changes in distribution are discussed in the following section.

4.1 Volatile Organic Compounds

Reduction in the concentration and distribution of chlorinated parent compounds (PCE and TCE) and the associated changes in the concentration of daughter products (*cis*-DCE and vinyl chloride) were taken as primary lines of evidence used to evaluate the effectiveness of ERD at the site.

As illustrated on Figure 4-1, a considerable reduction in the VOC groundwater plume was observed since ERD was initiated at the site in October 2004. The yellow shading on Figure 4-1 illustrates the estimated extent of PCE and TCE parent compounds present in groundwater at concentrations above remediation goals based on groundwater data collected during or before the September 2004 baseline groundwater sampling event, prior to implementation of ERD. The blue shading on Figure 4-1 illustrates the current (2010) extent of PCE and TCE in groundwater above remediation goals. Substantial improvement in groundwater quality has occurred, particularly in groundwater beneath the former source areas. This figure clearly illustrates that since initiation of ERD, what was once a site-wide, single VOC plume has evolved into smaller fragmented remnants. As presented in the 2007 Remedial Action Annual Report (RMT, 2008), these remnant VOC plumes have been termed the northern, eastern, and southern plumes.

The reason for the observed reduction in distribution of PCE/TCE (and subsequent development of remnant plumes) can be seen in the time versus concentration and molar ratio graphs prepared for injection wells DP-3-1, DP-3-2, B-3, and A-7. Figure 4-2 illustrates decreasing concentrations of PCE and TCE over time, with current concentrations below applicable clean-up goals. Figures 4-2 and 4-3 both illustrate a corresponding increase in the production of daughter products *cis*-DCE and vinyl chloride, strong evidence of the ERD process. Geochemical parameters ORP and DO, included on Figure 4-3, illustrate that when conditions conducive to ERD are maintained (*i.e.*, negative ORP and low DO), the RD process is very effective at remediating VOC compounds.

Substantial progress toward attainment of groundwater remedial goals has been made in a large portion of the site using ERD. Three smaller areas of the site still contain concentrations of VOCs at levels above remedial goals. The following text provides a discussion and evaluation of these three limited areas of remaining VOC plumes, particularly as each VOC plume has responded to ongoing ERD treatments.

4.1.1 Northern Plume

The residual northern VOC plume most likely originated beneath former SVE Area 1 and SVE Area 2. According to RMTs 2007 conceptual site model, during the initial

release, VOC compounds migrated from the former source areas (including SVE Area I and Area 2) and moved vertically through the unsaturated soils to groundwater. PCE and TCE, being heavier than groundwater, continued migrating vertically through the saturated saprolite and weathered bedrock zones. Upon encountering competent bedrock, these denser-than-water constituents likely migrated northeastward, along the bedrock surface producing the northeastward trending plume currently observed. PCE/TCE dissolved in groundwater was also carried, but to a lesser extent, to the east-southeast, in the direction of groundwater flow. Performance standard verification borings (PSVBs) conducted in SVE Area 1 and Area 2 in 1999 demonstrated that SVE treatment of the unsaturated soils in these former source areas was successful and achieved the remedial objectives set forth in the ROD. Groundwater samples collected from temporary monitoring wells in this area still contained VOCs at concentrations above groundwater remedial goals.

VOC data collected from four wells located within the northern plume area (DP-2-1, MW-3D, SW-108, and BW-202) were evaluated to assess the performance and progress of ERD in this portion of the site. Wells DP-2-1 and MW-3D are both used as injection wells to deliver lactate treatments into the aquifer. Well DP-2-1 is also located within a former VOC source area, situated near former SVE Areas 1 and 2. As a former groundwater recovery well, DP-2-1 is screened across a significant portion of the VOC plume in this area. MW-3D is centrally located within the northern plume, but was constructed with a much shorter well screen that is positioned near the base of the VOC plume, thus limiting its ability to effectively transmit significant ERD treatment amendments into the aquifer. Wells BW-202 and SW-108 are performance monitoring wells that are located near the northeastern edge of the northern plume, with SW-108 located hydraulically downgradient from injection well A-4. Time versus concentration graphs for these wells are provided in Appendix B. Molar ratio graphs are provided in Appendix C.

Fluctuations can be observed in the concentrations of PCE and TCE in groundwater sampled from well DP-2-1, with an apparent increasing trend observed during the period between 2007 and 2009. A subsequent decline in PCE and TCE concentrations was subsequently observed between 2009 and 2010. Increasing molarities of daughter products (*cis*-DCE and vinyl chloride) provide evidence of ERD occurring within this portion of the plume.

An overall decrease in PCE/TCE concentrations observed in groundwater samples collected from well MW-3D is taken as a positive sign. Similarly, apparent changes in the concentration of daughter products (like *cis*-DCE) and the corresponding increase

and subsequent decrease in the molarity of *cis*-DCE and vinyl chloride provides strong evidence of the effectiveness of ERD in this portion of the northern plume.

PCE and TCE concentrations have been observed to be steady or increasing from groundwater samples collected from wells SW-108 and BW-202. Increasing molarities of the parent compounds, coupled with minimal production of *cis*-DCE or vinyl chloride daughter products indicates to RMT that ERD is not occurring as well in this portion of the plume. Geochemical indicators (discussed later in this section) also support a conclusion that aquifer conditions more conducive to ERD are not being strongly established in this portion of the aquifer. After examining the well screen lengths and depths of these injection points used in this area of the site, RMT has concluded that the reason for these observations can be attributed to the limited number of available injection points that are screened across the highest VOC intervals of the northern plume. Later in this report, RMT has described recommendations for enhancing introduction of ERD additives and improving subsequent performance monitoring in this plume area.

4.1.2 Eastern Plume

VOC data from four wells located within and adjacent to the eastern plume (A-2, A-5, MW-2-2, and A-6) were evaluated to assess the progress and performance of ERD in this portion of the site. Wells A-2, A-5, and A-6 have been previously used for injection of lactate media into the aquifer. Wells A-5 and MW-2-2 are both located within the central portion of the eastern VOC plume, with monitoring well MW-2-2 located hydraulically downgradient of injection well A-5. Well A-2 is located near the southern boundary of the eastern plume, along the fault zone. Well A-6 is located along the northern end of the eastern plume. Time versus concentration graphs for these wells are provided in Appendix B. Molar ratio graphs are provided in Appendix C.

Increasing concentrations of PCE and TCE were observed in the groundwater sampled from well A-5 between 2006 and 2010. Increasing molarities of daughter products (*cis*-DCE and vinyl chloride) provide evidence of ERD occurring in this portion of the plume.

Increasing concentrations of parent and daughter compounds are evident in groundwater sampled from well MW-2-2. Increasing molarities of daughter products (*cis*-DCE and vinyl chloride) provides good evidence that ERD is occurring in this portion of the plume. The appearance of vinyl chloride, the reduction in DO concentration, and change from positive to negative ORP in November 2006 suggests to RMT that two years after the initial injection into well A-5, evidence of ERD could be

observed in downgradient monitoring well MW-2-2. These data provide evidence of the extent of influence as well as persistence of the amendments within the aquifer.

Decreasing concentrations of PCE and TCE in groundwater sampled from injection well A-2 combined with increasing and subsequent decreasing molar concentration of *cis*-DCE and vinyl chloride provide strong evidence of good ERD response between September 2004 and February 2006. While PCE and TCE were again detected in groundwater from well A-2 beginning in November 2006, the continued presence of daughter products in groundwater from this well indicates that ERD is ongoing in this portion of the plume.

Decreasing concentrations of PCE and TCE in well A-6 combined with increasing concentrations of daughter compounds *cis*-DCE and vinyl chloride also illustrate the effectiveness of RD in this portion of the site.

Overall, RMT sees the groundwater quality of this area of the site as showing a positive response to ERD. PCE/TCE in groundwater of the perimeter wells are stable to declining in concentration, indicating that the eastern plume is not expanding. Geochemical indicators show strong evidence of ERD throughout the eastern plume. Based on the groundwater quality data, RMT believes that active remedial measures in this portion of the site are nearing completion and transition into MNA is imminent.

4.1.3 Southern Plume

VOC data from the four wells located within the area of the southern plume (B-1, B-3, BW-2, and SW-4) were evaluated to assess the progress and extent of ERD in this portion of the site. Wells B-1 and B-3 have both been used for injection of lactate solution into the aquifer. Well SW-4 is located hydraulically upgradient of the B-line of nutrient injection wells. Well BW-2 is centrally located within what remains of the southern plume, and hydraulically downgradient from injection well DP-3-2. Time versus concentration graphs for these wells are provided in Appendix B. Molar ratio graphs are provided in Appendix C.

Increasing molarities of daughter products, combined with the essential elimination of parent compounds in well B-3, provides strong evidence of the effectiveness of ERD treatment processes in this portion of the southern plume. This is supported by the data collected from well B-1, with an overall decrease in the molarity of parent compounds coupled with an increase and subsequent decrease in the molarity of daughter products.

Relatively stable concentrations of PCE and TCE in groundwater from well BW-2 as well as the observed trends of geochemical indicators suggests that aquifer conditions may be less conducive to ERD in this portion of the southern plume. Molar concentrations of the parent compounds PCE and TCE have remained relatively stable since September 2005. The apparent increase in molarity of *cis*-DCE in well BW-2 may be due to ERD, however, we also see elevated levels of DO and more positive ORP levels in this well. Thus, detections of *cis*-DCE may be more likely attributable to migration of the more soluble *cis*-DCE from injection well DP-3-2.

VOC concentrations and geochemical indicators in well SW-4 show less evidence of ERD influence. Molar concentrations of parent compounds PCE and TCE have remained essentially unchanged with no detectable degradation to daughter compounds. A slight reduction in TCE concentration has been observed over time.

Overall, the groundwater quality in the area of the eastern plume shows a positive response to ERD. The size of the PCE/TCE plume in this portion of the site has shrunk considerably compared to previous site evaluations and data interpretations. With few exceptions, geochemical indicators show strong evidence of the RD process. In the two wells apparently not measurably influenced by ERD, attenuation of VOCs is still observed. Based on the groundwater quality data, it is RMT's opinion that active remedial measures are no longer necessary in this portion of the site and a transition to MNA is appropriate.

4.2 Geochemical Indicator Parameters

Geochemical indicator parameters are evaluated to assess aquifer conditions conducive to ERD as well as assess the extent of influence of the injections. Geochemical indicator data were both evaluated as within discrete data points and, in some cases, within larger groupings of monitoring wells. Wells were grouped according to their position with regard to their proximity to active treatment zones. An active treatment zone is loosely described by those wells that were used for injection of lactate-base treatment media and those wells immediately adjacent to, or downgradient of the injection wells and expected to be within their radius of influence. The list of the wells grouped as located within the "active treatment zone" is provided in Appendix D.

4.2.1 Oxidation Reduction Potential

Negative ORP in groundwater provides an indication of aquifer conditions that are more conducive to ERD. As shown on the histogram provided in Appendix D, wells located within the active treatment zones generally exhibit a negative ORP, while wells located beyond the influence of the active treatment zone generally reveal more positive ORP

values. Since the performance monitoring sampling event was conducted six months following the latest nutrient injection, it was encouraging to note that ORP measurements remained negative in six of the 14 injection wells and three of the surrounding monitoring wells, a positive sign that conditions conducive to ERD are being developed and sustained in the aquifer. As illustrated on the molar concentration graphs provided in Appendix C, there also appears to be a direct correlation between negative ORP and the progression of the dechlorination process from parent (PCE/TCE) compounds to daughter (cis-DCE/vinyl chloride) compounds. ORP continues to be a consistent and reliable field measurement for assessing ERD performance and the overall dechlorination process.

4.2.2 Dissolved Oxygen

The addition of sodium lactate (electron donor) to the aquifer stimulates bacterial growth that quickly consumes available DO. Sodium metabisulfite is also injected into each well as an oxygen scavenger to further promote and establish conditions conducive to ERD. Groundwater in the wells located within the active treatment zones reveal a significant decrease in DO levels, as compared to the September 2004 baseline sampling event. As illustrated by the histogram included in Appendix D, DO levels within most of the wells within the active treatment zones have been reduced to concentrations less than 1.0 mg/L. These DO levels are positive evidence that site conditions are conducive to ERD. The distribution of DO in groundwater at concentrations less than 1.0 mg/L also provides a good indication of the extent of impact of the nutrient injections within the aquifer.

4.2.3 Dissolved Ferrous Iron

With the depletion of oxygen from the aquifer, the indigenous microbial community shifts its attention towards finding and consuming alternative electron acceptors, such as ferric iron and sulfate. Under anaerobic conditions, ferric iron (Fe⁻³) can be reduced to soluble ferrous iron (Fe⁻²). Measurement of Fe⁻² in groundwater can provide useful indications of ongoing ERD.

Groundwater within the active treatment zones generally displayed levels of Fe¹² at concentrations of 0.1 ppm or higher, while those wells situated outside of the active treatment area displayed levels of Fe¹² at concentrations less than 0.1 ppm (see histogram, Appendix D). Concentrations of Fe¹² within the groundwater above historic background levels are taken as good indication of ERD and evidence of the areal extent of the observed treatment area.

4.2.4 Dissolved Manganese

Concentrations of dissolved manganese were also found to be considerably higher in the groundwater of wells located within the active treatment zone, as compared to wells located outside the active treatment zone (see histogram, Appendix D). Increasing levels of dissolved manganese are a good sign that reducing conditions have been established within the aquifer and provide an effective electron acceptor for the indigenous anaerobic microbes. Concentrations of dissolved manganese were also observed to decline with increasing distance from the injection wells, eventually declining to non-detect levels. This gradual attenuation of liberated manganese beyond the active treatment zone is taken as good evidence of the observed areal treatment extent.

4.2.5 Sulfate

During the March 2010 monitoring event, sulfate concentrations generally ranged from 2.0 to 12.1 mg/L, with the higher concentrations observed within the active treatment zone. Similar concentrations and distribution were observed during the 2009 monitoring event. Each event had one monitoring well displaying sulfate at a concentration inconsistent with historic or surrounding concentrations. During 2009, MW-3D had a reported sulfate concentration of 19.9 mg/L. In 2010, MLW-1-3 had a reported sulfate concentration of 181 mg/L. Since these values have not been consistent over time, it is possible that they are simply anomalous artifacts and not representative of actual site groundwater quality.

Typically, observed reductions in sulfate concentrations (when compared to historic background levels) can suggest the presence of sulfate-reducing bacteria, several strains which are capable of promoting and sustaining ERD. Sulfate reducing conditions are particularly conducive to ERD of *cis*-DCE to vinyl chloride. Generally, sulfate data collected from the Medley Farm Site have not revealed any meaningful patterns or trends that would suggest to RMT that sulfate-reducing organisms are at work in the RD process. Since the site data does not reveal that sulfate levels represent a useful indicator parameter for this site, it is RMT's recommendation that this parameter be deleted from subsequent performance monitoring events.

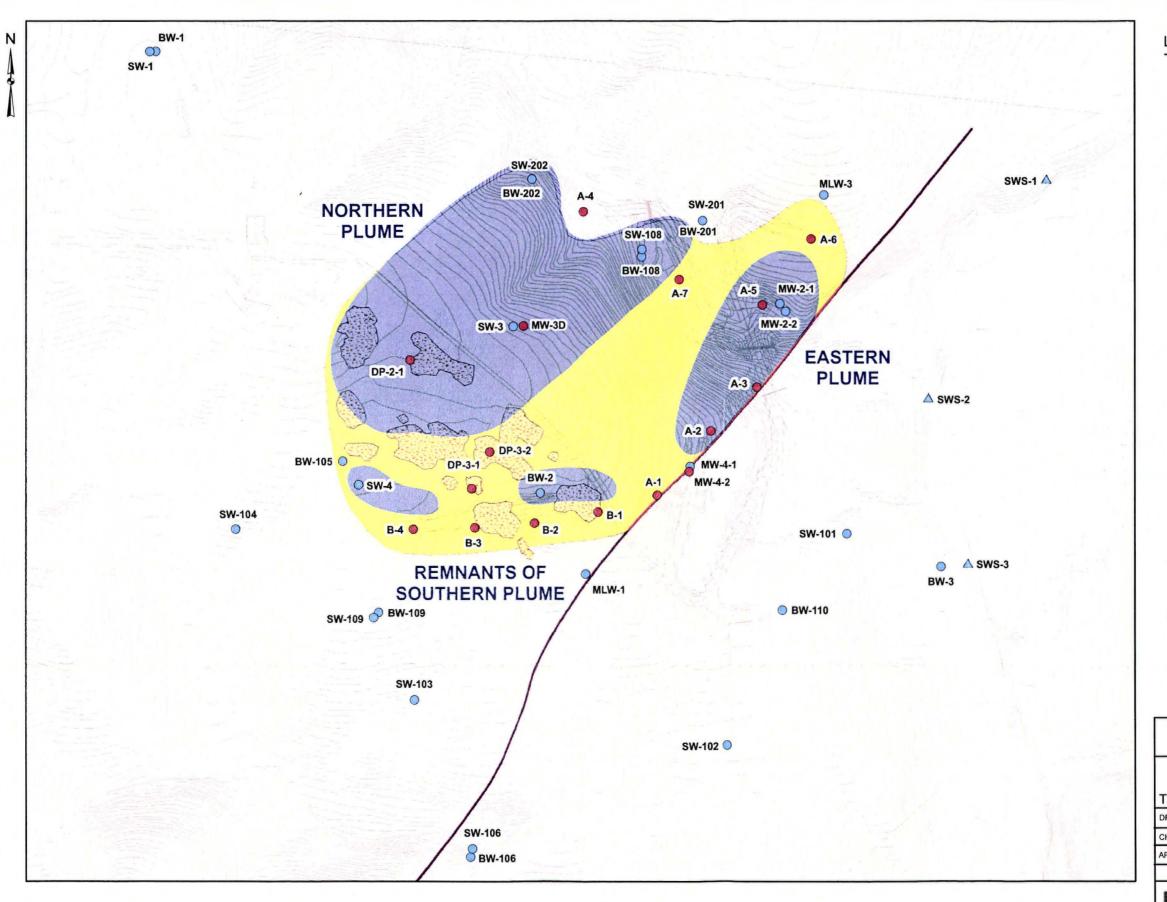
4.2.6 pH

pH levels measured in wells located within the active treatment zones have remained somewhat higher than the pH measured in wells located outside the active treatment zones (see histogram, Appendix D). The pH of groundwater within the active treatment area currently ranges from 5.9 to 7.5, while wells outside the treatment area display pH values between 5.5 and 7.3. Both of the pH ranges fall within acceptable levels for ERD,

as microbial growth can be inhibited when pH drops below 5 or raises to levels above 9. Overall, these field data demonstrate that the water quality of the aquifer has been successfully adjusted to conditions that more fully accommodate and support ERD.

4.2.7 Volatile Fatty Acids

Sporadically, RMT has observed sporadic data from ongoing VFA analyses that support the presence of metabolic by-products occurring as a result of ERD. Overall, VFA data have yielded less than conclusive results and have not been especially useful in supporting our efforts to assess and evaluate ERD treatment performance. RMT recommends that VFAs be deleted as a indicator parameter from further performance monitoring sampling events.



LEGEND



TETRACHLOROETHENE AND TRICHLOROETHENE EXTENT MARCH 2010 (0.005 MG/L)



ESTIMATED EXTENT OF TETRACHLOROETHENE AND TRICHLOROETHENE PRIOR TO INITIAL LACTATE INJECTION **IN OCTOBER 2004**



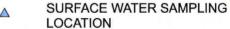
FORMER DISPOSAL AREA OR LAGOON



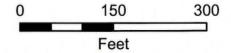
MONITORING WELL LOCATION



INJECTION WELL LOCATION



FAULT



MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

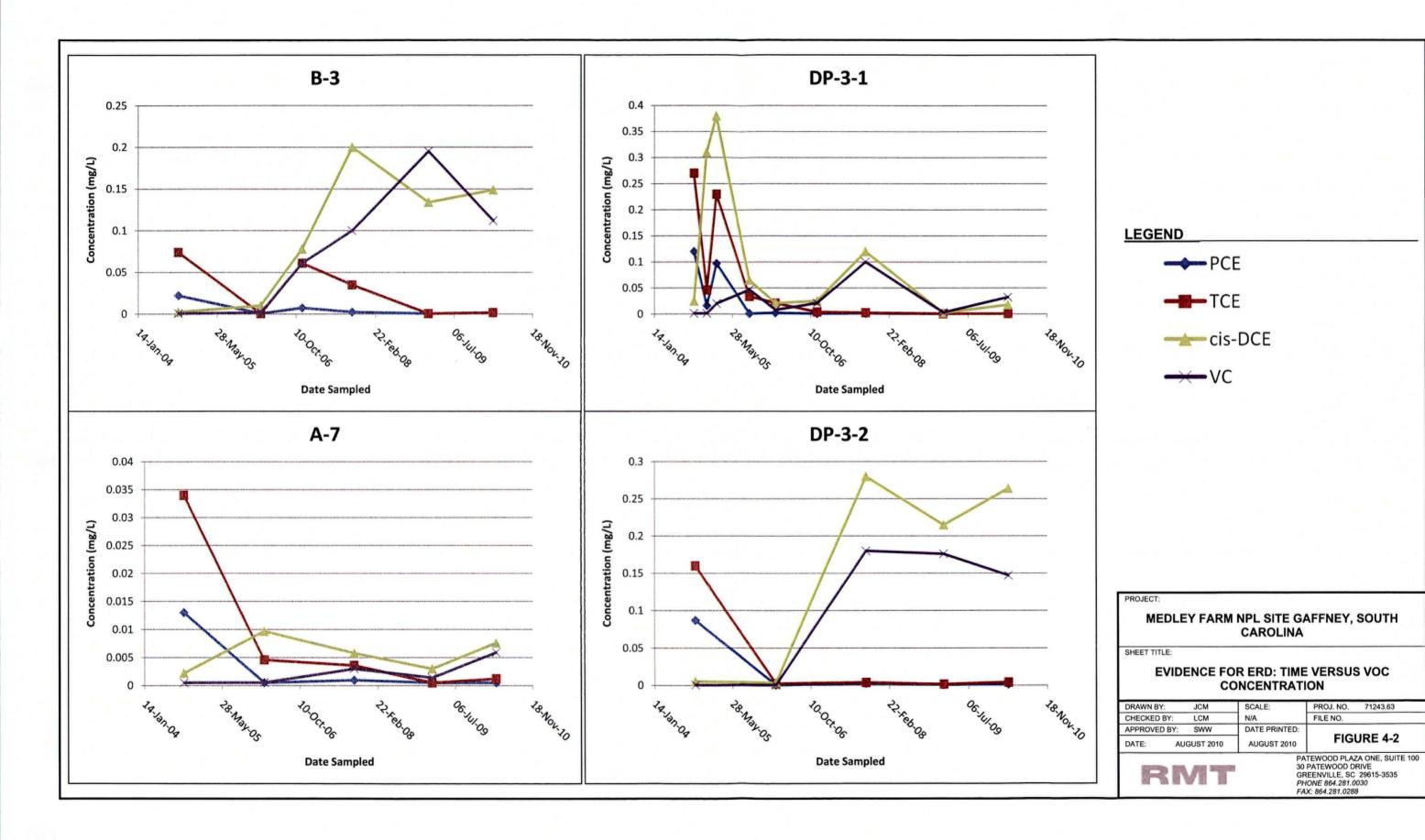
EVIDENCE FOR ERD: REDUCTION IN DISTRIBUTION OF

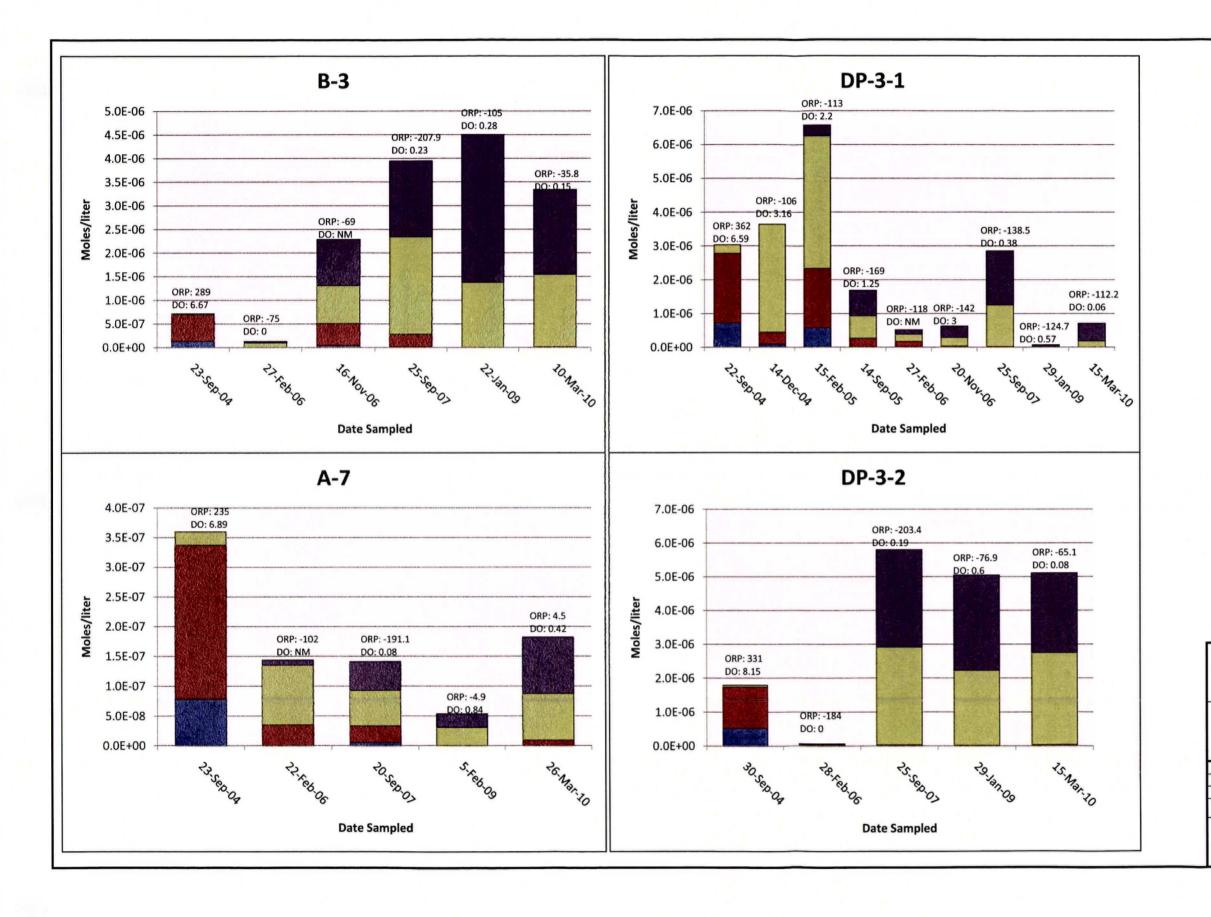
TETRACHLOROETHENE AND TRICHLOROETHENE DRAWN BY: PROJECT NO.: 71243.63 SCALE AS NOTED DATE: AUGUST 2010 CHECKED BY: LMC FIGURE NO .: APPROVED BY: SWW 4-1



Patewood Plaza One, Suite 100 30 Patewood Drive Greenville, SC 29615-3535 Phone: 864-281-0030 FAX: 864-281-0288

Map Document: (P:\Hydro\71243\ArcGIS9\2010\ChangeSince2004_11x17.mxd) 8/6/2010 -- 10:25:31 AM





LEGEND

■ VC

cis-DCE

TCE

PCE

NOTE

THE DECHLORINATION REACTION SEQUENCE WOULD BE EXPECTED TO PRODUCE ONE MOLE OF DECHLORINATION PRODUCTS (CIS-DCE, VINYL CHLORIDE, ETHENE, AND ETHANE) FOR EACH MOLE OF PARENT COMPOUNDS (PCE/TCE) THAT ARE PRESENT.

ROJECT:

MEDLEY FARM NPL SITE GAFFNEY, SOUTH CAROLINA

SHEET TITLE:

EVIDENCE FOR ERD: VOC MOLAR CONCENTRATIONS

DRAWN BY:	JCM	SCALE:	PROJ. NO. 71243.63
CHECKED BY:	LMC	N/A	FILE NO.
APPROVED BY	: SWW	DATE PRINTED:	FIGURE 4.5
DATE:	AUGUST 2010	AUGUST 2010	FIGURE 4-3



PATEWOOD PLAZA ONE, SUITE 100 30 PATEWOOD DRIVE GREENVILLE, SC 29615-3535 PHONE 864.281.0030 FAX: 864.281.0288

Section 5 Conclusions and Recommendations

Conclusions and associated recommendations resulting from evaluation of performance monitoring data collected over the past two years are summarized in the following text.

5.1 Conclusions

- Groundwater flow direction and gradients have remained consistent since shutdown of the groundwater P&T operations in 2004. Groundwater continues to flow to the southeast, where it ultimately discharges to the unnamed tributary to Jones Creek.
- VOCs have not been detected in surface water samples collected from the unnamed tributary to Jones Creek. This observation, combined with the current interpretation of VOC plume configuration, demonstrates that ERD has been effective in preventing the migration and transport of VOCs to the surface water and potential off-site receptors.
- Aquifer conditions conductive to ERD processes show good evidence of persistence within the active treatment area. Six months following each nutrient injection event, groundwater within the active treatment area has been sampled and generally reveals signs of negative ORP measurements, DO less than 1.0 mg/L, and dissolved ferrous iron and dissolved manganese greater than background. These are all good signs that water quality conditions indicative of ERD persist over time.
- Data collected from monitoring well MW-2-2 suggests that conditions conductive to ERD persist in the aquifer for up to two years after an injection event. In November 2006, groundwater samples from well MW-2-2 revealed evidence of vinyl chloride, reduction in DO concentration, and change from positive to negative ORP. These data suggest that it required approximately two years for ERD treatment introduced at injection well A-5 to have an impact on groundwater quality in well MW-2-2. These data also suggest that reducing conditions persisted in the aquifer at least two years after completion of the injection event.
- Ever decreasing concentrations of chlorinated parent compounds (PCE and TCE) and the appearance and subsequent decline in levels of daughter products (*cis*-DCE and vinyl chloride) represent primary lines of evidence that ERD is occurring and is effective across the site in remediating VOC-affected groundwater.
- Groundwater samples displaying strongly negative ORP and low DO levels also showed significant degradation of chlorinated parent compounds. Groundwater samples displaying more positive ORP and higher DO revealed lesser evidence of ERD-facilitated degradation of the chlorinated parent compounds. Developing and maintaining anaerobic,

- reducing conditions within the aquifer will remain important to the success of site-wide ERD efforts.
- A considerable reduction in the extent of the PCE/TCE groundwater plume can be observed since ERD was initiated in October 2004. What was once considered to be a site-wide, single VOC plume has evolved into three smaller fragmented VOC plume remnants.
- While there is evidence that ERD is occurring in all three remaining VOC plumes, the southern plume has shown the most progress over the past 2 years, shrinking considerably since 2007. This area of the site has achieved groundwater quality conditions suitable for MNA. Ongoing performance monitoring can be used to determine if additional ERD treatment is required in the future.
- The eastern plume has also shown considerable remedial progress related to ERD. RMT believes that active remedial measures in this portion of the site are nearing completion.
- Ongoing performance monitoring has revealed that successful ERD treatment is widely predicated upon the ability of the injected nutrients to be distributed across the VOC-impacted groundwater zones. The northern VOC plume currently has a limited number of available injection points in the appropriate locations. The wells currently being utilized for nutrient injection in the northern VOC plume include DP-2-1, MW-3D, A-4, and A-7. These wells were initially installed as a part of the groundwater recovery/treatment and performance monitoring program. While aptly positioned for their original purpose, additional wells may help to better promote and maintain effective ERD treatment within the northern plume. RMT believes that ERD performance in the northern plume could be enhanced by construction of three additional injection wells and one new performance monitoring wells in this area. The proposed locations of these news wells are illustrated on Plate 1. The focus of these new wells would be to locate their well screens more strategically across the cross-section of the northern VOC plume to augment ERD treatment and enhance subsequent performance monitoring efforts.
- The residual northern VOC plume most likely originated beneath former SVE Area 1 and SVE Area 2. These areas are highlighted on the cross-section on Plate 1. According to RMTs 2007 conceptual site model, during the initial release, VOC compounds migrated from the former source areas (including SVE Area 1 and Area 2) and moved vertically through the unsaturated soils to groundwater. PCE and TCE, being heavier than groundwater, continued migrating vertically through the saturated saprolite and weathered bedrock zones. Upon encountering competent bedrock, these denser-than-water constituents likely migrated northeastward, along the bedrock surface, illustrated in the cross section on Plate 1, producing the northeastward trending plume currently observed. PCE/TCE dissolved in groundwater was also carried, but to a lesser extent, to the east-southeast, in the direction of groundwater flow. PSVBs conducted in SVE Area 1 and Area 2 in 1999 demonstrated that SVE treatment of the unsaturated soils in these former source areas was successful and

achieved the remedial objectives set forth in the ROD. Groundwater samples collected from temporary monitoring wells in this area still contained VOCs at concentrations above groundwater remedial goals.

5.2 Recommendations

- Historically, VFA and sulfate data have not been useful indicator parameters in helping RMT assess and evaluate ERD treatment performance. RMT recommends continued application of ORP, DO, dissolved ferrous iron, dissolved manganese, and pH as useful geochemical indicators for the evaluation of ERD. RMT recommends that VFAs and sulfate be removed from further use in the site performance monitoring program.
- Install three additional injection wells within the northern VOC plume to facilitate and accelerate ERD treatment within this portion of the site. Proposed locations for the new wells are illustrated on Plate 1.
- Install one additional performance monitoring well to help better gauge the effectiveness of the nutrient injections downgradient of these new injection wells. The proposed location of this well is included on Plate 1. This well would be designed such that it could later be used as an injection well, if site conditions deemed such a move appropriate.
- Collect and analyze background groundwater samples from the newly installed wells prior to the next nutrient injection event, to provide some manner of baseline groundwater quality against which future remedial progress can be measured.
- Conduct another nutrient injection event, utilizing the newly installed injection wells as well as select existing injection wells during the third quarter 2010. The wells proposed for this injection event are provided on Table 5-1.
- Conduct a focused groundwater sampling event during the first quarter of 2011, approximately 6 months after the injection event. The wells to be sampled will be focused within and immediately adjacent to the active treatment area. The wells proposed for this sampling event are provided on Table 5-1.
- Provide USEPA and SC DHEC with an annual report in 2011 documenting the response of the site aquifer to these most recent events and establish a basis for future site remedial response.

Table 5-1
Targeted Injection and Performance Monitoring Plan

3Q2010 BASELINE SAMPLING	3Q2010 INJECTION EVENT	1Q2011 PERFORMANCE MONITORING
C-1 ⁽¹⁾	C-1 ⁽¹⁾	C-1 ⁽¹⁾
C-2 ⁽¹⁾	C-2 ⁽¹⁾	C-2 ⁽¹⁾
C-3 ⁽¹⁾	C-3 ⁽¹⁾	C-3 ⁽¹⁾
BW-301 ⁽¹⁾	BW-301 ⁽¹⁾	BW-301 ⁽¹⁾
		A-1
	A-2	A-2
	A-3	A-3
	A-4	A-4
	A-5	A-5
		A-6
	A-7	A-7
		B-1
		B-2
		B-3
		B-4
		BW-2
		BW-3
		BW-108
		BW-201
		BW-202
	DP-2-1	DP-2-1
		DP-3-1
		DP-3-2
		MW-2-1
		MW-2-2
	MW-3D	MW-3D
		MW-4-1
		MW-4-2
		SW-3
-		SW-4

Table 5-1 Targeted Injection and Performance Monitoring Plan

3Q2010 BASELINE SAMPLING	3Q2010 INJECTION EVENT	1Q2011 PERFORMANCE MONITORING
		SW-108
		SW-201
		SW-202
		SWS-1 ⁽²⁾
		SWS-2 ⁽²⁾
		SWS-3 ⁽²⁾

Proposed new injection or monitoring well.
Surface water sampling location.

Section 6 References

- Diefendorf, Drew and Mark A. Miesfeldt, RMT, Inc. February 2005. Technical Memorandum for Medley Farm NPL Site, Preliminary Performance Evaluation, Initial Enhanced Dechlorination Injection Results to Ralph Howard, USEPA, Region 4. February 18, 2005.
- RMT, Inc. June 1992. Field Sampling and Analysis Plan/Quality Assurance Project Plan. Medley Farm Site, Gaffney, South Carolina.
- RMT, Inc. February 2006. 2005 Remedial Action Annual Report. Medley Farm NPL Site, Gaffney, South Carolina.
- RMT, Inc. March 2007. 2006 Remedial Action Annual Report. Medley Farm NPL Site, Gaffney, South Carolina.
- RMT, Inc. February 2008. 2007 Remedial Action Annual Report. Medley Farm NPL Site, Gaffney, South Carolina.
- RMT, Inc. April 2010. *Quality Assurance Project Plan.* Medley Farm Site, Gaffney, South Carolina.

Appendix A Analytical Laboratory Reports





March 29, 2010

Mark Bailey RMT Greenville 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4029419

Dear Mark Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

KASK KON

kang.khang@pacelabs.com Project Manager

Enclosures





TEMP-OK; COC-SIGNED; HT-OK; NARR-OK

SURR - RECS OK

Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9

Green Bay, WI 54302

MBLKS-CLEAN EXCEPT FOR 0.47 Jugll OF METHYLENE CHURIDE.

(920)469-2436

March 29, 2010

A "u" FLAG IS ADDED TO METHYLENE CHLORIDE IN B-1, MLW-1-1, MLW-1-2, MLW-1-3, MLW-1-4, MW-2-2, MLW-3-2, B-3, AND MW-4-2.

Mark Bailey

RMT Greenville 30 Patewood Drive

TBLK-10101 - CLEAN

Suite 100, Patewood Plaza One

Greenville, SC 296153535 LCS/LCSD - RECS + RPDs OK

MS/MSD - Mn, DISS - TWO BATCH QC MS/MSD PAIRS. - RECS -RPDS OK.

RE: Project: 71243.61 MEDLEY FARMS 504 - TWO MS/MSD PARS - B-1 AND MW-4-1 USED.

- RECUS YRPDS OK

Dear Mark Bailey:

- VOCS - MLW-1-4 USED FOR MSINSD. RECS+RPDSOK.

Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

FIKID DUR-DU-10101 IS A FIELD DUPLICATE OF MW-4-2. RPBS <118.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kask Ka

Kang Khang

kang.khang@pacelabs.com

Project Manager

Enclosures

Terry Det 4/1/10



Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

Green Bay Certification IDs

California Certification #: 09268CA Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 11887 New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 1241 Bellevue Street Green Bay, WI 54302







SAMPLE SUMMARY

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029419

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4029419001	B-1	Waler	03/09/10 13:50	03/13/10 09:40
4029419002	MLW-1-1	Water	03/09/10 10:55	03/13/10 09:40
4029419003	MLW-1-2	Water	03/09/10 11:35	03/13/10 09:40
4029419004	MLW-1-3	Water	03/09/10 13.10	03/13/10 09:40
4029419005	MLW-1-4	Water	03/09/10 13:30	03/13/10 09:40
4029419006	MW-2-2	Water	03/09/10 15.00	03/13/10 09:40
4029419007	MLW-1-4	Water	03/10/10 14:25	03/13/10 09:40
4029419008	MLW-3-2	Water	03/10/10 15:05	03/13/10 09:40
4029419009	B-2	Water	03/10/10 13:40	03/13/10 09:40
4029419010	B-3	Water	03/10/10 16:00	03/13/10 09.40
1029419011	TBLK-10101	Water	03/10/10 00:00	03/13/10 09:40
4029419012	B-4	Water	03/11/10 15:40	03/13/10 09:40
4029419013	MW-2-1	Water	03/12/10 11:10	03/13/10 09:40
4029419014	MW-4-1	Water	03/12/10 12:10	03/13/10 09:40
4029419015	MLW-3-3	Water	03/12/10 10:55	03/13/10 09:40
1929419016	MLW-3-4	Water	03/12/10 11:30	03/13/10 09:40
J29419017	MW-4-2	Water	03/12/10 13:10	03/13/10 09:40
4029419018	DU-10101	Water	03/12/10 00:00	03/13/10 09:40





SAMPLE ANALYTE COUNT

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029419

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1029419001	B-1	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419002	MLW-1-1	EPA 6010	DLB	1	PASI-G
		EPA 8260	МИН	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419003	MLW-1-2	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419004	MLW-1-3	EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419005	MLW-1-4	EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4029419006 MW-2-2	MW-2-2	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419007	MLW-1-4	EPA 6010	DLB	1	PASI-G
029419008	MLW-3-2	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419009	B-2	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419010	B-3	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419011	TBLK-10101	EPA 8260	MNH	20	PASI-G
029419012	B- 4	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419013	MW-2-1	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419014	MW-4-1	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029419015	MLW-3-3	EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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(920)469-2436



SAMPLE ANALYTE COUNT

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4029419016	MLW-3-4	EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4029419017	MW-4-2	EPA 6010	DLB	1	PASI-G
		EPA 8260	WMH	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4029419018	DU-10101	EPA 6010	DLB	1	PASI-G
		EPA 8260	HNW	20	PASI-G
		EPA 300.0	DDY	1	PASI-G





(920)469-2436



PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

Method:

EPA 6010

Description: 6010 MET ICP. Dissolved **Client:** RMT - GREENVILLE

Date:

March 29, 2010

General Information:

14 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

• MW-2-2 (Lab ID: 4029419006)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

If analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9

Green Bay, WI 54302

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PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

Method:

EPA 8260

Description: 8260 MSV

Client:

RMT - GREENVILLE

Date:

March 29, 2010

General Information:

17 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

'urrogates:

I surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





(920)469-2436



PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

Method:

EPA 300.0

Client:

Description: 300.0 IC Anions 28 Days RMT - GREENVILLE

Date:

March 29, 2010

General Information:

16 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

Haboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.







Project:

71243.61 MEDLEY FARMS

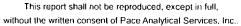
Pace Project No.: 4029419

Sample: B-1	Lab ID:	4029419001	Collecte	d: 03/09/10	13:50	Received: 00	3/13/10 09:40 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical I	010							
Manganese, Dissolved	4200 ug	J/L	5.0	0.12	1		03/16/10 17:54	7439-96-5	
8260 MSV	Analytical I	260							
Acetone	ND ug	J/L	20.0	5.0	1		03/17/10 18:44	67-64-1	
Benzene	ND ug	J/L	1.0	0.41	1		03/17/10 18:44	71-43-2	
2-Butanone (MEK)	ND ug	J/L	20.0	4.3	1		03/17/10 18:44	78-93-3	
Chloroethane	ND ug	₃/L	1.0	0.97	1		03/17/10 18:44	75-00-3	
Chloroform	ND ug	J/L	5.0	1.3	1		03/17/10 18:44	67-66-3	
Chloromethane	ND ug	j/L	1.0	0.24	1		03/17/10 18.44	74-87-3	
1.1-Dichloroethane	ND ug	j/L	1.0	0 75	1		03/17/10 18:44	75-34-3	
1.2-Dichloroethane	ND ug		1.0	0.36	1		03/17/10 18:44	107-06-2	
1,1-Dichloroethene	ND ug]/L	1.0	0.57	1		03/17/10 18:44	75-35-4	
cis-1,2-Dichloroethene	6.6 ug	ı/L	1.0	0.83	1		03/17/10 18:44	156-59-2	
trans-1,2-Dichloroethene	ND ug		10	0.89	1		03/17/10 18:44	156-60-5	
Methylene Chloride	0.59J ug]/L	1.0	0.43	1		03/17/10 18:44	75-09-2	Z2,Z3
Tetrachloroethene	1.1 ug]/∟	1.0	0.45	1		03/17/10 18:44	127-18-4	
1,1-Trichloroethane	ND ug]/L	1.0	0.90	1		03/17/10 18:44	71-55-6	
,2-Trichloroethane	ND ug	j/l _	1.0	0.42	1		03/17/10 18:44	79-00-5	
.richloroethene	2.8 ug	j/L	1.0	0.48	1		03/17/10 18:44	79-01-6	
Vinyl chloride	2.4 ug	_J /L	1.0	0.18	1		03/17/10 18:44	75-01-4	
4-Bromofluorobenzene (S)	97 %		70-130		1		03/17/10 18:44	460-00-4	
Dibromofluoromethane (S)	105 %	-	70-130		1		03/17/10 18:44	1868-53-7	
Foluene-d8 (S)	105 %	-	70-130		1		03/17/10 18:44	2037-26-5	
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	300.0						
Sulfate	4.1 mg	g/L	4.0	2.0	1		03/22/10 23:44	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

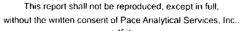
Pace Project No.: 4029419

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Sample: MLW-1-1	Lab ID:	4029419002	Collecte	d: 03/09/10	0 10:55	Received: 03	3/13/10 09:40 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA	6010						
Manganese, Dissolved	52.8 u	g/L	5.0	0.12	1		03/16/10 17:58	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	10.9J u	g/L	20.0	5.0	1		03/17/10 21:28	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/17/10 21:28	71-43-2	
2-Butanone (MEK)	12.9J u	g/L	20.0	4.3	1		03/17/10 21:28	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/17/10 21:28	75-00-3	
Chloroform	2.1J u	g/L	5.0	1.3	1		03/17/10 21:28	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		03/17/10 21:28	74-87-3	
1.1-Dichloroethane	0.88J u	g/L	1.0	0.75	1		03/17/10 21:28	75-34-3	
1.2-Dichloroethane	ND u	g/L	1.0	0.36	1		03/17/10 21:28	107-06-2	
1,1-Dichloroethene	ND u	g/L	10	0.57	1		03/17/10 21:28	75-35-4	
cis-1.2-Dichloroethene	ND u		1.0	0.83	1		03/17/10 21:28	156-59-2	
trans-1.2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/17/10 21:28	156-60-5	
Methylene Chloride	1.7 u		1.0	0.43	1		03/17/10 21:28	75-09-2	Z2,Z3
Tetrachloroethene	ND u	g/L	1.0	0.45	1		03/17/10 21:28	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/17/10 21:28	71-55-6	
,2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/17/10 21:28	79-00-5	
richloroethene	ND u	g/L	1.0	0.48	1		03/17/10 21:28	79-01-6	
Vinyl chloride	ND u		1.0	0.18	1		03/17/10 21:28	75-01-4	
4-Bromofluorobenzene (S)	97 %	_	70-130		1		03/17/10 21:28	460-00-4	
Dibromofluoromethane (S)	104 %	6-	70-130		1		03/17/10 21:28	1868-53-7	
Toluene-d8 (S)	105 %	6 -	70-130		1		03/17/10 21:28	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	ND m	ng/L	4.0	2.0	1		03/23/10 00:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

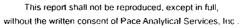
Pace Project No.: 4029419

Sample: MLW-1-2	Lab ID: 4	4029419003	Collecte	d: 03/09/10	11:35	Received: 00	3/13/10 09:40 M	Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical N	Analytical Method: EPA 6							
Manganese, Dissolved	95.5 ug	/L	5.0	0.12	1		03/16/10 18:02	7439-96-5	
8260 MSV	Analytical M	3260							
Acetone	11.3J ug	/L	20.0	5.0	1		03/17/10 21:52	67-64-1	
Benzene	ND ug	/L	1.0	0.41	1		03/17/10 21:52	71-43-2	
2-Butanone (MEK)	7.9J ug	/L	20.0	4.3	1		03/17/10 21:52	78-93-3	
Chloroethane	ND ug	/L	1.0	0.97	1		03/17/10 21:52	75-00-3	
Chloroform	2.0J ug	/L	5.0	1.3	1		03/17/10 21:52	67-66-3	
Chloromethane	ND ug	/L	1.0	0.24	1		03/17/10 21:52	74-87-3	
1,1-Dichloroethane	0.87J ug	/L	1.0	0.75	1		03/17/10 21:52	75-34-3	
1,2-Dichloroethane	ND ug	/L	1.0	0.36	1		03/17/10 21:52	107-06-2	
1,1-Dichloroethene	ND ug	/L	1.0	0.57	1		03/17/10 21:52	75-35-4	
cis-1,2-Dichloroethene	ND ug	/L	1.0	0.83	1		03/17/10 21:52	156-59-2	
trans-1,2-Dichloroethene	ND ug	/L	1.0	0.89	1		03/17/10 21:52	156-60-5	
Methylene Chloride	1.7 ug	/L	1.0	0.43	1		03/17/10 21:52	75-09-2	Z2.Z3
Tetrachloroethene	ND ug	/L	1.0	0.45	1		03/17/10 21:52	127-18-4	
1.1-Trichloroethane	ND ug	/L	1.0	0.90	1		03/17/10 21:52	71-55-6	
2-Trichloroethane	ND ug	/L	1.0	0.42	1		03/17/10 21:52	79-00-5	
chloroethene	ND ug	/L	1.0	0.48	1		03/17/10 21:52	79-01-6	
Vinyl chloride	0.19J ug	/L	1.0	0.18	1		03/17/10 21:52	75-01-4	
4-Bromofluorobenzene (S)	97 %-	-	70-130		1		03/17/10 21:52	460-00-4	
Dibromofluoromethane (S)	106 %-	-	70-130		1		03/17/10 21:52	1868-53-7	
Toluene-d8 (S)	105 %-		70-130		1		03/17/10 21:52	2037-26-5	
300.0 IC Anions 28 Days	Analytical N	Method: EPA 3	300.0						
Sulfate	ND mg	a/L	4.0	2.0	1		03/23/10 00:58	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

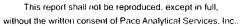
4029419

Sample: MLW-1-3	Lab ID:	4029419004	Collected:	03/09/10	13:10	Received: 00	3/13/10 09:40	Matrix: Water	_
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analylical	Method: EPA 8	3260						
Acetone	68.7 u	g/L	20.0	5.0	1		03/17/10 22:1	5 67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/17/10 22:1	5 71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/17/10 22:1	5 78-93-3	
Chloroethane	ND u	g/L	1.0	0 97	1		03/17/10 22:1	5 75-00-3	
Chloroform	2.1J u	g/L	5.0	1.3	1		03/17/10 22:1	5 67-66-3	
Chloromethane	ND u	-	1.0	0.24	1		03/17/10 22:1	5 74-87-3	
1,1-Dichloroethane	1.1 u	g/L	1.0	0.75	1		03/17/10 22:1	5 75-34-3	
1,2-Dichloroethane	ND u	g/L	1.0	0.36	1		03/17/10 22:1	5 107-06-2	
1,1-Dichloroethene	ND u	g/L	1.0	0.57	1		03/17/10 22:1	5 75-35-4	
cis-1,2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/17/10 22:1	5 156-59-2	
trans-1.2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/17/10 22:1	5 156-60-5	
Methylene Chloride	1.5 u	g/L	1.0	0.43	1		03/17/10 22:1	5 75-09-2	Z2,Z3
Tetrachloroethene	ND u	g/L	1.0	0.45	1		03/17/10 22:1	5 127-18-4	
1.1.1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/17/10 22:1	5 71-55-6	
1,1,2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/17/10 22:1	5 79-00-5	
Trichloroethene	ND u	g/L	1.0	0.48	1		03/17/10 22:1	5 79-01-6	
'finyl chloride	ND u	g/L	10	0.18	1		03/17/10 22:1	5 75-01-4	
3romofluorobenzene (S)	97 %	6-	70-130		1		03/17/10 22:1	5 460-00-4	
bromofluoromethane (S)	105 %	6-	70-130		1		03/17/10 22:1	5 1868-53-7	
Toluene-d8 (S)	105 %	⁄o-	70-130		1		03/17/10 22:1	5 2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0						
Sulfate	181 n	ng/L	80.0	40.0	20		03/23/10 01:1	0 14808-79-8	

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Project:

71243.61 MEDLEY FARMS

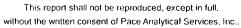
Pace Project No.: 4029419

Sample: MLW-1-4	Lab ID:	4029419005	Collecte	d: 03/09/10	13:30	Received: 03	3/13/10 09:40 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND u	ıg/L	20.0	5.0	1		03/17/10 17:57	67-64-1	
Benzene	ND u	ıg/L	1.0	0.41	1		03/17/10 17:57	71-43-2	
2-Butanone (MEK)	ND u	ıg/L	20.0	4.3	1		03/17/10 17:57	78-93-3	
Chloroethane	ND u	ıg/L	1.0	0.97	1		03/17/10 17:57	75-00-3	
Chloroform	ND u	ıg/L	5.0	1.3	1		03/17/10 17:57	67-66-3	
Chloromethane	ND u	ıg/L.	1.0	0.24	1		03/17/10 17:57	74-87-3	
1,1-Dichloroethane	ND u	ıg/L	1.0	0.75	1		03/17/10 17:57	75-34-3	
1,2-Dichloroethane	ND u	ıg/L	10	0.36	1		03/17/10 17:57	107-06-2	
1.1-Dichloroethene	ND u	ıg/L	1.0	0.57	1		03/17/10 17:57	75-35-4	
cis-1.2-Dichloroethene	1.3 u	ıg/L	1.0	0.83	1		03/17/10 17:57	156-59-2	
trans-1,2-Dichloroethene	ND u	ıg/L	10	0.89	1		03/17/10 17:57	156-60-5	
Methylene Chloride	0.53J u	ıg/L	1.0	0.43	1		03/17/10 17:57	75-09-2	Z2.Z3
Tetrachloroethene	1.0 u	ıg/L	1.0	0.45	1		03/17/10 17:57	127-18-4	
1,1,1-Trichloroethane	ND u	ıg/L	10	0.90	1		03/17/10 17:57	71-55-6	
1,1,2-Trichloroethane	ND u	ıg/L	1.0	0.42	1		03/17/10 17:57	79-00-5	
Trichloroethene	2.1 u	ig/L	1.0	0.48	1		03/17/10 17:57	79-01-6	
Vinyl chloride	ND u	ıg/L	1.0	0.18	1		03/17/10 17:57	75-01-4	
3romofluorobenzene (S)	96 %	/o-	70-130		1		03/17/10 17:57	460-00-4	
.promofluoromethane (S)	102 %	/o-	70-130		1		03/17/10 17:57	1868-53-7	
Toluene-d8 (S)	104 %	/o-	70-130		1		03/17/10 17:57	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method. EPA 3	300.0						
Sulfate	9.5 n	ng/L	4.0	2.0	1		03/23/10 01:22	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

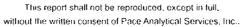
Pace Project No.: 4029419

Sample: MW-2-2	Lab ID: 4	029419006	Collected	d: 03/09/10	15:00	Received: 03	3/13/10 09:40 M	alrix: Water	<u> </u>
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical M	Analytical Method: EPA 6							
Manganese, Dissolved	1360 ug/	'L	5.0	0.12	1		03/16/10 18:06	7439-96-5	P4
8260 MSV	Analytical M	lethod: EPA 8	260						
Acetone	ND ug/	L.	20.0	5 0	1		03/17/10 23:02	67-64-1	
Benzene	ND ug/	'L	1.0	0.41	1		03/17/10 23:02	71-43-2	
2-Butanone (MEK)	ND ug/	'L	20.0	4.3	1		03/17/10 23:02	78-93-3	
Chloroethane	ND ug/	'L	1.0	0.97	1		03/17/10 23:02	75-00-3	
Chloroform	4.9J ug/	'L	5.0	1.3	1		03/17/10 23:02	67-66-3	
Chloromethane	ND ug/	'L	1.0	0.24	1		03/17/10 23:02	74-87-3	
1,1-Dichloroethane	ND ug/	'L	1.0	0.75	1		03/17/10 23:02	75-34-3	
1,2-Dichloroethane	1.2 ug/		1.0	0.36	1		03/17/10 23:02	107-06-2	
1,1-Dichloroethene	2.9 ug/		1.0	0.57	1		03/17/10 23:02	75-35-4	
cis-1.2-Dichloroethene	17.4 ug/	'L	1.0	0.83	1		03/17/10 23:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/	'L	1.0	0.89	1		03/17/10 23:02	156-60-5	
Methylene Chloride	0.44J ug/	'L	1.0	0.43	1		03/17/10 23:02	75-09-2	Z2,Z3
Tetrachloroethene	23.7 ug/		1.0	0.45	1		03/17/10 23:02	127-18-4	
1,1-Trichloroethane	ND ug/	'L	1.0	0.90	1		03/17/10 23.02	71-55-6	
.2-Trichloroethane	1.6 ug/	'L	10	0.42	1		03/17/10 23:02	79-00-5	
, richloroethene	56.9 ug/	'L	10	0.48	1		03/17/10 23:02	79-01-6	
Vinyl chloride	3.8 ug/	'L	1.0	0.18	1		03/17/10 23:02	75-01-4	
4-Bromofluorobenzene (S)	98 %-		70-130		1		03/17/10 23:02	460-00-4	
Dibromofluoromethane (S)	106 %-		70-130		1		03/17/10 23.02	1868-53-7	
Toluene-d8 (S)	105 %-		70-130		1		03/17/10 23:02	2037-26-5	
300.0 IC Anions 28 Days	Analytical M	fethod: EPA 3	0.00						
Sulfate	5.4 mg	/L	4.0	2.0	1		03/23/10 01:34	14808-79-8	

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03/16/10 18:10 7439-96-5



ANALYTICAL RESULTS

Project:

71243.61 MEDLEY FARMS

2.1J ug/L

Pace Project No.: 4029419

Manganese. Dissolved

Sample: MLW-1-4	Lab ID: 4029419007		Collected: 03/10/10 14:25			Received: 03/13/10 09:40		/latrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								

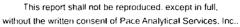
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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 402

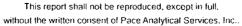
4029419

Sample: MLW-3-2 Parameters	Lab ID: 40294190	08 Collecte	Collected: 03/10/10 15:05			3/13/10 09:40 N	fatrix: Water	
	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	PA 6010						
Manganese, Dissolved	14.1 ug/L	5.0	0 12	1		03/16/10 18:14	7439-96-5	
8260 MSV	Analytical Method: EPA 8260							
Acetone	7.0J ug/L	20.0	5.0	1		03/17/10 22.39	9 67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/17/10 22:39	9 71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/17/10 22:39	9 78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/17/10 22:39	9 75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/17/10 22:39	9 67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/17/10 22:39	9 74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/17/10 22:39	9 75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/17/10 22:39	9 107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/17/10 22:39	9 75-35-4	
cis-1,2-Dichloroethene	23.5 ug/L	1.0	0.83	1		03/17/10 22:39	9 156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/17/10 22:39	9 156-60-5	
Methylene Chloride	0.50J ug/L	1.0	0 43	ı		03/17/10 22:39	75-09-2	Z2,Z3
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/17/10 22:39	9 127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/17/10 22:39	9 71-55-6	
,2-Trichloroethane	ND ug/L	1.0	0.42	1		03/17/10 22:39	79-00-5	
richloroethene	ND ug/L	1.0	0 48	1		03/17/10 22:39	9 79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		03/17/10 22:39	9 75-01-4	
4-Bromofluorobenzene (S)	96 %-	70-130		1		03/17/10 22:39	9 460-00-4	
Dibromofluoromethane (S)	104 %-	70-130		1		03/17/10 22:39	9 1868-53-7	
Toluene-d8 (S)	105 %-	70-130		1		03/17/10 22:39	9 2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND mg/L	4.0	2.0	1		03/23/10 01:46	5 14808-79-8	

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Green Bay, WI 54302 (920)469-2436

ANALYTICAL RESULTS

Project:

71243.61 MEDLEY FARMS

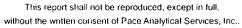
Pace Project No.: 4029419

Sample: B-2	Lab ID: 402941900	Lab ID: 4029419009 Collected: 03/10/10 13:40 Received: 03/13/10 09:40				3/13/10 09:40 M	Matrix: Water		
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Dissolved	Analytical Method: EF	PA 6010							
Manganese, Dissolved	3300 ug/L	5.0	0.12	1		03/16/10 18:18	7439-96-5		
8260 MSV	Analytical Method: EF	PA 8260							
Acetone	ND ug/L	20.0	5.0	1		03/17/10 23:26	67-64-1		
Benzene	ND ug/L	1.0	0.41	1		03/17/10 23:26	71-43-2		
2-Butanone (MEK)	ND ug/L	20 0	4.3	1		03/17/10 23:26	78-93-3		
Chloroethane	ND ug/L	1.0	0.97	1		03/17/10 23:26	75-00-3		
Chloroform	ND ug/L	5.0	1.3	1		03/17/10 23:26	67-66-3		
Chloromethane	ND ug/L	1.0	0.24	1		03/17/10 23:26	74-87-3		
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/17/10 23:26	75-34-3		
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/17/10 23:26	107-06-2		
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/17/10 23:26	75-35-4		
cis-1,2-Dichloroethene	4.3 ug/L	1.0	0.83	1		03/17/10 23:26	156-59-2		
trans-1,2-Dichloroethene	ND ug/L	1.0	0 89	1		03/17/10 23:26	156-60-5		
Methylene Chloride	ND ug/L	1.0	0.43	1		03/17/10 23:26	75-09-2		
Tetrachloroethene	0.59J ug/L	1.0	0.45	1		03/17/10 23:26	127-18-4		
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/17/10 23:26	71-55-6		
,2-Trichloroethane	ND ug/L	10	0 42	1		03/17/10 23:26	79-00-5		
. richloroethene	1.0 ug/L	1.0	0.48	1		03/17/10 23:26	79-01-6		
Vinyl chloride	0.77J ug/L	1.0	0.18	1		03/17/10 23:26	75-01-4		
4-Bromofluorobenzene (S)	97 %-	70-130		1		03/17/10 23:26	460-00-4		
Dibromofluoromethane (S)	104 %-	70-130		1		03/17/10 23:26	1868-53-7		
Toluene-d8 (S)	105 %-	70-130		1		03/17/10 23:26	2037-26-5		
300.0 IC Anions 28 Days	Analytical Method: EF	PA 300 0							
Sulfate	6.6 mg/L	4.0	2.0	1		03/23/10 01:58	14808-79-8		

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Project:

71243.61 MEDLEY FARMS

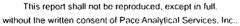
Pace Project No.: 4029419

Sample: B-3	Lab ID: 4029419	0010 Collecte	d: 03/10/10	0 16:00	Received: 00	3/13/10 09:40 M	latrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method:	EPA 6010						
Manganese, Dissolved	3900 ug/L	5.0	0.12	1		03/16/10 18:22	7439-96-5	
8260 MSV	Analytical Method:	EPA 8260						
Acetone	ND ug/L	50.0	12.5	2.5		03/18/10 00:13	67-64-1	
Benzene	ND ug/L	2.5	1.0	2.5		03/18/10 00:13	71-43-2	
2-Butanone (MEK)	ND ug/L	50.0	10.8	2 5		03/18/10 00:13	78-93-3	
Chloroethane	ND ug/L	2.5	2.4	2.5		03/18/10 00:13	75-00-3	
Chloroform	ND ug/L	12.5	3.2	2.5		03/18/10 00:13	67-66-3	
Chloromethane	ND ug/L	2.5	0.60	2.5		03/18/10 00:13	74-87-3	
1,1-Dichloroethane	3.2 ug/L	2.5	1.9	2.5		03/18/10 00:13	75-34-3	
1,2-Dichloroethane	101 ug/L	2.5	0.90	2.5		03/18/10 00:13	107-06-2	
1,1-Dichloroethene	2.8 ug/L	2.5	1.4	2.5		03/18/10 00:13	75-35-4	
cis-1,2-Dichloroethene	149 ug/L	2.5	2.1	2.5		03/18/10 00.13	156-59-2	
trans-1.2-Dichloroethene	4.3 ug/L	2.5	2.2	2.5		03/18/10 00:13	156-60-5	
Methylene Chloride	1.6J ug/L	2.5	1.1	2.5		03/18/10 00:13	75-09-2	Z2,Z3
Tetrachloroethene	ND ug/L	2.5	1.1	2.5		03/18/10 00:13	127-18-4	
1.1-Trichloroethane	ND ug/L	2.5	2.2	2.5		03/18/10 00:13	71-55-6	
,2-Trichloroethane	8.2 ug/L	2.5	1.0	2.5		03/18/10 00:13	79-00-5	
ichloroethene	1.7J ug/L	2.5	1.2	2.5		03/18/10 00:13	79-01-6	
Vinyl chloride	112 ug/L	2.5	0.45	2.5		03/18/10 00:13	75-01-4	
4-Bromofluorobenzene (S)	97 %-	70-130		2.5		03/18/10 00:13	460-00-4	
Dibromofluoromethane (S)	105 %-	70-130		2.5		03/18/10 00:13	1868-53-7	
Toluene-d8 (S)	104 %-	70-130		2.5		03/18/10 00:13	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method:	EPA 300.0						
Sulfate	4.2 mg/L	4.0	2.0	1		03/23/10 02:11	14808-79-8	

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Project:

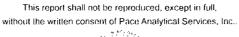
71243.61 MEDLEY FARMS

Pace Project No.: 4029419

Sample: TBLK-10101	Lab ID: 402	Lab ID: 4029419011 Collected: 03/10/10 00:00 Received: 03/13/10 09:40 Matrix: \						
Parameters	Results t	Jnits PQL	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/17/10 18:20	67-64-1	
Benzene	ND ug/L	1.0	0 41	1		03/17/10 18:20	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/17/10 18:20	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/17/10 18:20	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/17/10 18:20	67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/17/10 18:20	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/17/10 18:20	75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/17/10 18:20	107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/17/10 18:20	75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/17/10 18:20	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/17/10 18:20	156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/17/10 18:20	75-09-2	
Tetrachloroethene	ND ug/L	1.0	0 45	1		03/17/10 18:20	127-18-4	
1,1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/17/10 18:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L	1.0	0 42	1		03/17/10 18:20	79-00-5	
Trichloroethene	ND ug/L	1.0	0.48	1		03/17/10 18:20	79-0 1- 6	
'/inyl chloride	ND ug/L	1.0	0.18	1		03/17/10 18:20	75-01-4	
3romofluorobenzene (S)	97 %-	70-130		1		03/17/10 18:20	460-00-4	
ibromofluoromethane (S)	105 %-	70-130		1		03/17/10 18:20	1868-53-7	
Toluene-d8 (S)	104 %-	70-130		1		03/17/10 18:20	2037-26-5	

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Project:

71243.61 MEDLEY FARMS

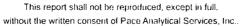
Pace Project No.: 4029419

Sample: B-4	Lab ID:	4029419012	Collecte	d: 03/11/10	15:40	Received: 00	3/13/10 09:40 N	latrix: Water	•
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical I	Method: EPA 6	6010						
Manganese, Dissolved	2220 ug	_J /L	5.0	0.12	1		03/16/10 18:26	7439-96-5	
8260 MSV	Analytical I	Method: EPA 8	3260						
Acetone	ND ug	ı/L	20.0	5.0	1		03/17/10 19:07	67-64-1	
Benzene	ND ug	ı/L	10	0.41	1		03/17/10 19:07	71-43-2	
2-Butanone (MEK)	ND ug	J/L	20.0	4.3	1		03/17/10 19:07	78-93-3	
Chloroethane	ND ug	}/L	1.0	0.97	1		03/17/10 19:07	75-00-3	
Chloroform	ND ug	_J /L	5.0	1.3	1		03/17/10 19:07	67-66-3	
Chloromethane	ND ug	_J /L	1.0	0.24	1		03/17/10 19:07	74-87-3	
1,1-Dichloroethane	ND ug	_J /L	1.0	0.75	1		03/17/10 19:07	75-34-3	
1,2-Dichloroethane	ND ug	_J /L	1.0	0.36	1		03/17/10 19:07	107-06-2	
1,1-Dichloroethene	ND ug	_J /L	1.0	0.57	1		03/17/10 19:07	75-35-4	
cis-1.2-Dichloroethene	1.2 ug	;/L	1.0	0.83	1		03/17/10 19:07	156-59-2	
trans-1,2-Dichloroethene	ND ug	9/L	1.0	0.89	1		03/17/10 19:07	156-60-5	
Methylene Chloride	ND ug	ı/L	1.0	0.43	1		03/17/10 19:07	75-09-2	
Tetrachloroethene	ND ug	j/L	1.0	0.45	1		03/17/10 19:07	127-18-4	
1,1-Trichloroethane	ND ug	j/l_	1.0	0.90	1		03/17/10 19:07	71-55-6	
,2-Trichloroethane	ND ug	₃ /L	1.0	0.42	1		03/17/10 19:07	79-00-5	
.richloroethene	0.80J ug	3/L	1.0	0.48	1		03/17/10 19:07	79-01-6	
Vinyl chloride	0.81J ug		1.0	0.18	1		03/17/10 19:07	75-01-4	
4-Bromofluorobenzene (S)	97 %		70-130		1		03/17/10 19:07	460-00-4	
Dibromofluoromethane (S)	103 %	-	70-130		1		03/17/10 19:07	1868 - 53-7	
Toluene-d8 (S)	105 %	-	70-130		1		03/17/10 19:07	2037-26-5	
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	300.0						
Sulfate	3.1J m	g/L	4.0	20	1		03/23/10 02:23	14808-79-8	

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Project:

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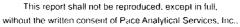
Pace Project No.: 4029419

Sample: MW-2-1	Lab ID: 4029419	013 Collecte	d: 03/12/10	11:10	Received: 03	3/13/10 09:40 M	atrix: Water	
Parameters	Results Units	PQL	MDL	ÐF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: 8	EPA 6010						
Manganese, Dissolved	55.8 ug/L	5.0	0.12	1		03/16/10 18:30	7439-96-5	
8260 MSV	Analytical Method: 6	EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/17/10 19:31	67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/17/10 19:31	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/17/10 19:31	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/17/10 19:31	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/17/10 19:31	67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/17/10 19:31	74-87-3	
1.1-Dichloroethane	ND ug/L	1.0	0.75	1		03/17/10 19:31	75-34-3	
1,2-Dichloroethane	0.43J ug/L	1 0	0.36	1		03/17/10 19:31	107-06-2	
1.1-Dichloroethene	ND ug/L	1.0	0.57	1		03/17/10 19:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/17/10 19:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/17/10 19:31	156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/17/10 19:31	75-09-2	
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/17/10 19:31	127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/17/10 19:31	71-55-6	
.2-Trichloroethane	ND ug/L	1.0	0.42	1		03/17/10 19:31	79-00-5	
richloroethene	ND ug/L	1.0	0 48	1		03/17/10 19:31	79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		03/17/10 19:31	75-01-4	
4-Bromofluorobenzene (S)	98 %-	70-130		1		03/17/10 19:31	460-00-4	
Dibromofluoromethane (S)	105 %-	70-130		1		03/17/10 19:31	1868-53-7	
Toluene-d8 (S)	104 %-	70-130		1		03/17/10 19:31	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: [EPA 300.0						
Sulfate	12.1 mg/L	4 0	2.0	1		03/23/10 02:35	14808-79-8	

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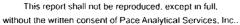
Pace Project No.: 4029419

Sample: MW-4-1	Lab ID: 402	Lab ID: 4029419014 Collected: 03/12/10 12:10 Received: 03/13/10 09:40 Matrix: V						Water		
Parameters	Results l	Jnits PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
6010 MET ICP, Dissolved	Analytical Met	hod: EPA 6010								
Manganese, Dissolved	496 ug/L	5.0	0.12	1		03/17/10 13:46	7439-96-5			
8260 MSV	Analytical Met	hod: EPA 8260								
Acetone	ND ug/L	20.0	5.0	1		03/17/10 19:54	67-64-1			
Benzene	ND ug/L	1.0	0.41	1		03/17/10 19:54	71-43-2			
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/17/10 19:54	78-93-3			
Chloroethane	ND ug/L	1.0	0.97	1		03/17/10 19:54	75-00-3			
Chloroform	ND ug/L	5.0	1.3	1		03/17/10 19:54	67-66-3			
Chloromethane	ND ug/L	1.0	0.24	1		03/17/10 19.54	74-87-3			
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/17/10 19:54	75-34-3			
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/17/10 19:54	107-06-2			
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/17/10 19:54	75-35-4			
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/17/10 19:54	156-59-2			
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/17/10 19:54	156-60-5			
Methylene Chloride	ND ug/L	1.0	0.43	1		03/17/10 19:54	75-09-2			
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/17/10 19:54	127-18-4			
1.1-Trichloroethane	ND ug/L	1.0	0.90	1		03/17/10 19:54	71-55-6			
.2-Trichloroethane	ND ug/L	1.0	0.42	1		03/17/10 19:54	79-00-5			
. richloroethene	ND ug/L	1.0	0.48	1		03/17/10 19:54	79-01-6			
Vinyl chloride	0.40J ug/L	1.0	0.18	1		03/17/10 19:54	75-01-4			
4-Bromofluorobenzene (S)	98 %-	70-130		1		03/17/10 19:54	460-00-4			
Dibromofluoromethane (S)	104 %-	70-130		1		03/17/10 19:54	1868-53-7			
Toluene-d8 (S)	105 %-	70-130		1		03/17/10 19:54	2037-26-5			
300.0 IC Anions 28 Days	Analytical Met	hod: EPA 300.0								
Sulfate	3.6J mg/L	4.0	2.0	1		03/23/10 03:12	14808-79-8			

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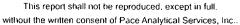
Pace Project No.: 4029419

Sample: MLW-3-3	Lab ID: 402941901	5 Collecte	d: 03/12/1	0 10:55	Received: 03	3/13/10 09:40	Matrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EP	PA 6010						
Manganese, Dissolved	4.4J ug/L	5 0	0.12	1		03/16/10 18:4	6 7439-96-5	
8260 MSV	Analytical Method: EP	A 8260						
Acetone	ND ug/L	20.0	5.0	1		03/17/10 20:1	8 67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/17/10 20:1	8 71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/17/10 20:1	8 78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/17/10 20:1	8 75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/17/10 20:1	8 67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/17/10 20:1	8 74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/17/10 20:1	8 75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/17/10 20:1	8 107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/17/10 20:1	8 75-35-4	
cis-1.2-Dichloroethene	24.3 ug/L	1.0	0 83	1		03/17/10 20:1	8 156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/17/10 20:1	8 156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/17/10 20:1	8 75-09-2	
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/17/10 20:1	8 127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/17/10 20:1	8 71-55-6	
.,2-Trichloroethane	ND ug/L	1.0	0.42	1		03/17/10 20:1	8 79-00-5	
. richtoroethene	ND ug/L	1.0	0.48	1		03/17/10 20.1	8 79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		03/17/10 20 ⁻ 1	8 75-01-4	
4-Bromofluorobenzene (S)	98 %-	70-130		1		03/17/10 20:1	8 460-00-4	
Dibromofluoromethane (S)	104 %-	70-130		1		03/17/10 20:1	8 1868-53-7	
Toluene-d8 (S)	105 %-	70-130		1		03/17/10 20:1	8 2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EP	PA 300.0						
Sulfate	2.3J mg/L	4.0	2.0	1		03/23/10 03:4	8 14808-79-8	

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Project:

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Pace Project No.:

4029419

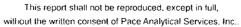
Sample: MLW-3-4	Lab ID:	4029419016	Collected	: 03/12/10	11:30	Received:	03/13/10 09:40	Matrix: Water
Doromotore	Dogulto	Lluita	DOL	MDI	חב	Dronoro	J Analusa	d CACNa

Parameters	Results	Units PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical M	Method: EPA 8260						
Acetone	ND uga	/L 20.0	5.0	1		03/17/10 20:41	67-64-1	
Benzene	ND ug	/L 1.0	0.41	1		03/17/10 20:41	71-43-2	
2-Butanone (MEK)	ND ug	/L 20.0	4.3	1		03/17/10 20:41	78-93-3	
Chloroethane	ND ug	/L 1.0	0.97	1		03/17/10 20:41	75-00-3	
Chloroform	ND uga	/L 5.0	1.3	1		03/17/10 20:41	67-66-3	
Chloromethane	ND ug	/L 1.0	0.24	1		03/17/10 20:41	74-87-3	
1,1-Dichloroethane	ND ug	/L 1.0	0.75	1		03/17/10 20:41	75-34-3	
1,2-Dichloroethane	ND uga	/L 1.0	0.36	1		03/17/10 20:41	107-06-2	
1,1-Dichloroethene	ND uga	/L 1.0	0.57	1		03/17/10 20:41	75-35-4	
cis-1,2-Dichloroethene	13.2 ug/	/L 1.0	0.83	1		03/17/10 20:41	156-59-2	
trans-1,2-Dichloroethene	ND ug	/L 1.0	0.89	1		03/17/10 20 41	156-60-5	
Methylene Chloride	ND ug	/L 1.0	0.43	1		03/17/10 20.41	75-09-2	
Tetrachloroethene	ND ug	/L 1.0	0.45	1		03/17/10 20:41	127-18-4	
1.1,1-Trichloroethane	ND ug	/L 1.0	0.90	1		03/17/10 20:41	71-55-6	
1,1,2-Trichloroethane	ND ug	/L 1.0	0.42	1		03/17/10 20:41	79-00-5	
Trichloroethene	ND ug	/L 1.0	0.48	1		03/17/10 20:41	79-01-6	
'/inyl chloride	ND ug		0.18	1		03/17/10 20:41	75-01-4	
3romofluorobenzene (S)	97 %-			1		03/17/10 20:41	460-00-4	
.bromofluoromethane (S)	105 %-	70-130		1		03/17/10 20:41	1868-53-7	
Toluene-d8 (S)	105 %-	70-130		1		03/17/10 20:41	2037-26-5	
300.0 IC Anions 28 Days	Analytical N	Method: EPA 300 0						
Sulfate	2.0J mg	J/L 4.0	2.0	1		03/23/10 04:00	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029419

Sample: MW-4-2	Lab ID:	4029419017	Collected	1: 03/12/10	13:10	Received: 03	3/13/10 09:40 N	//atrix: Water	
Parameters	Results	Units	PQL _	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	4070 ug	g/L	5.0	0.12	1		03/16/10 18:50	0 7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND ug	g/L	20.0	5.0	1		03/17/10 21:0	5 67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/17/10 21:0	5 71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4.3	1		03/17/10 21:0	5 78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/17/10 21:0	5 75-00-3	
Chloroform	ND ug	g/L	5.0	1.3	1		03/17/10 21:0	5 67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/17/10 21:0	5 74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		03/17/10 21:0	5 75-34-3	
1,2-Dichloroethane	1.1 ug	g/L	1.0	0.36	1		03/17/10 21:0	5 107-06-2	
1,1-Dichloroethene	ND ug	g/L	1.0	0.57	1		03/17/10 21:0	5 75-35-4	
cis-1,2-Dichloroethene	3.9 ug	g/L	1.0	0.83	1		03/17/10 21:0	5 156-59-2	
trans-1.2-Dichloroethene	ND ug		1.0	0 89	1		03/17/10 21:0	5 156-60-5	
Methylene Chloride	0.45J ug	g/L	1.0	0.43	1		03/17/10 21:0	5 75-09-2	Z2.Z3
Tetrachloroethene	1.8 ug		1.0	0.45	1		03/17/10 21:0	5 127-18-4	
1,1-Trichloroethane	ND ug	g/L	1.0	0.90	1		03/17/10 21:0	5 71-55-6	
,2-Trichloroethane	ND ug	g/L	1.0	0.42	1		03/17/10 21:0	5 79-00-5	
ichloroethene	4.4 ug	g/L	1.0	0.48	1		03/17/10 21:0	5 79-01-6	
Vinyl chloride	2.6 Ug	g/L	1.0	0.18	1		03/17/10 21:0	5 75-01-4	
4-Bromofluorobenzene (S)	97 %) -	70-130		1		03/17/10 21:0	5 460-00-4	
Dibromofluoromethane (S)	104 %	<i>y</i> =	70-130		1		03/17/10 21:0	5 1868-53-7	
Toluene-d8 (S)	104 %)-	70-130		1		03/17/10 21:0	5 2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0						
Sulfate	4.7 m	ıg/L	4.0	2.0	1		03/23/10 04:1	2 14808-79-8	

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Project:

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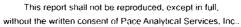
Pace Project No.: 4029419

Sample: DU-10101	Lab ID: 40	Lab ID: 4029419018 Collected: 03/12/10 00:00 Received: 03/13/10 09				3/13/10 09:40 M	9:40 Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Oual
6010 MET ICP, Dissolved	Analylical Me	thod: EPA 601	0						
Manganese, Dissolved	4110 ug/L		5.0	0.12	1		03/16/10 16:55	7439-96-5	
8260 MSV	Analytical Me	thod: EPA 826	0						
Acetone	ND ug/L		20.0	5.0	1		03/17/10 23:49	67-64-1	
Benzene	ND ug/L		1.0	0.41	1		03/17/10 23:49	71-43-2	
2-Butanone (MEK)	ND ug/L		20.0	4.3	1		03/17/10 23:49	78-93-3	
Chloroethane	ND ug/L		1.0	0.97	1		03/17/10 23:49	75-00-3	
Chloroform	ND ug/L		5.0	1.3	1		03/17/10 23:49	67-66-3	
Chloromethane	ND ug/L		10	0 24	1		03/17/10 23:49	74-87-3	
1,1-Dichloroethane	ND ug/L		1.0	0 75	1		03/17/10 23:49	75-34-3	
1.2-Dichloroethane	1.1 ug/L		10	0.36	1		03/17/10 23:49	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.57	1		03/17/10 23:49	75-35-4	
cis-1.2-Dichloroethene	3.9 ug/L		1.0	0.83	1		03/17/10 23:49	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.89	1		03/17/10 23:49	156-60-5	
Methylene Chloride	ND ug/L		1.0	0.43	1		03/17/10 23:49	75-09-2	
Tetrachloroethene	1.8 ug/L		1.0	0.45	1		03/17/10 23:49	127-18-4	
1,1-Trichloroethane	ND ug/L		1.0	0.90	1		03/17/10 23:49	71-55-6	
,2-Trichloroethane	ND ug/L		1.0	0.42	1		03/17/10 23:49	79-00-5	
ichloroethene	4.5 ug/L		1.0	0.48	1		03/17/10 23:49	79-01-6	
Vinyl chloride	2.9 ug/L		1.0	0.18	1		03/17/10 23:49	75-01-4	
4-Bromofluorobenzene (S)	95 %-		70-130		1		03/17/10 23:49	460-00-4	
Dibromofluoromethane (S)	107 %-		70-130		1		03/17/10 23:49	1868-53-7	
Toluene-d8 (S)	104 %-		70-130		1		03/17/10 23:49	2037-26-5	
300.0 IC Anions 28 Days	Analytical Me	thod: EPA 300	0						
Sulfate	4.7 mg/L	-	4.0	2.0	1		03/23/10 04:25	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

QC Batch:

ICP/3206

Analysis Method:

EPA 6010

QC Batch Method:

EPA 6010

Analysis Description:

Associated Lab Samples:

4029419001, 4029419002, 4029419003, 4029419006, 4029419007, 4029419008, 4029419009, 4029419010,

ICP Metals. Trace, Dissolved

4029419012, 4029419013, 4029419014, 4029419015, 4029419017

METHOD BLANK: 274981

Matrix: Water

Associated Lab Samples:

4029419001, 4029419002, 4029419003, 4029419006, 4029419007, 4029419008, 4029419009, 4029419010,

4029419012, 4029419013, 4029419014, 4029419015, 4029419017

Blank

Reporting

Parameter

Units

Units

Result

Limit

Analyzed

103

Qualifiers

Manganese, Dissolved

ug/L

ND

5.0 03/16/10 17:11

LABORATORY CONTROL SAMPLE:

Parameter

274982

Spike Conc

LCS Result

LCS % Rec

MSD

Result

% Rec Limits

Manganese, Dissolved

ug/L

500

514

500

80-120

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

274983

MSD

MS

Spike Conc.

MS Result

274984

MS % Rec

MSD % Rec % Rec

Max RPD RPD

Qual

Parameter Manganese, Dissolved

Units

ug/L

4029345001 Spike Result Conc 680

500

1150

1150

94

Limits 75-125 95

20

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

QC Batch:

ICP/3207

Analysis Method:

EPA 6010

QC Batch Method: Associated Lab Samples:

EPA 6010

Analysis Description:

ICP Metals, Trace, Dissolved

METHOD BLANK: 274989

Matrix: Water

Associated Lab Samples:

4029419018

4029419018

Blank Result

Reporting Limit

Analyzed

100

Oualifiers

Manganese, Dissolved

ug/L

ND

5.0 03/16/10 15:44

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

274990

Units

Units

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Manganese, Dissolved

ug/L

Units

ug/L

500

499

274992

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

MSD

Spike

4029421005

MS Spike Conc.

MS

MSD Result

2830

MS % Rec

MSD % Rec % Rec Limits

Max RPD RPD

Qual

Parameter anganese. Dissolved

Result 2390

500

Conc 500

Result 2810 85

75-125

20

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

QC Batch:

MSV/7192

Analysis Method:

EPA 8260

QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples:

4029419001, 4029419002, 4029419003, 4029419004, 4029419005, 4029419006, 4029419008, 4029419009,

4029419010, 4029419011, 4029419012, 4029419013, 4029419014, 4029419015, 4029419016, 4029419017.

4029419018

METHOD BLANK: 274775

Matrix: Water

Associated Lab Samples:

4029419001, 4029419002, 4029419003, 4029419004, 4029419005, 4029419006, 4029419008, 4029419009, 4029419010, 4029419011, 4029419012, 4029419013, 4029419014, 4029419015, 4029419016, 4029419017.

4029419018

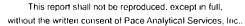
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/17/10 14:01	
1.1,2-Trichloroethane	ug/L	ND	1.0	03/17/10 14:01	
1,1-Dichloroethane	ug/L	ND	1.0	03/17/10 14:01	
1,1-Dichloroethene	ug/L	ND	1.0	03/17/10 14:01	
1,2-Dichloroethane	ug/L	ND	1.0	03/17/10 14:01	
2-Butanone (MEK)	ug/L	ND	20.0	03/17/10 14:01	
Acetone	ug/L	ND	20.0	03/17/10 14:01	
Benzene	ug/L	ND	1.0	03/17/10 14:01	
Chloroethane	ug/L	ND	1.0	03/17/10 14:01	
Chloroform	ug/L	ND	5.0	03/17/10 14:01	
hloromethane	ug/L	ND	1.0	03/17/10 14:01	
s-1,2-Dichloroethene	ug/L	ND	1.0	03/17/10 14:01	
Methylene Chloride	ug/L	0.47J	1.0	03/17/10 14:01	
Tetrachloroethene	ug/L	ND	1.0	03/17/10 14:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/17/10 14:01	
Trichloroethene	ug/L	ND	1.0	03/17/10 14:01	
Vinyl chloride	ug/L	ND	1.0	03/17/10 14:01	
4-Bromofluorobenzene (S)	%-	99	70-130	03/17/10 14:01	
Dibromofluoromethane (S)	%-	102	70-130	03/17/10 14:01	
Toluene-d8 (S)	%-	105	70-130	03/17/10 14:01	

LABORATORY CONTROL SAM	MPLE & LCSD: 274776		27	74777						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.4	51.3	105	103	70-132	2	20	
1,1.2-Trichloroethane	ug/L	50	52.2	50.5	104	101	70-130	3	20	
1,1-Dichloroethane	ug/L	50	54.0	53.2	108	106	70-130	1	20	
1,1-Dichloroethene	ug/L	50	42.9	44.3	86	89	70-130	3	20	
1.2-Dichloroethane	ug/L	50	51.0	49.9	102	100	70-134	2	20	
2-Butanone (MEK)	ug/L	50	50.8	47.2	102	94	36-181	7	35	
Acetone	ug/L	50	38.4	42.9	77	86	10-200	11	36	
Benzene	ug/L	50	52.7	52.2	105	104	70-131	1	20	
Chloroethane	ug/L	50	38.3	38.4	77	77	70-136	.3	20	
Chloroform	ug/L	50	52.8	51.3	106	103	70-130	3	20	
Chloromethane	ug/L	50	36.7	36.3	73	73	54-148	1	20	
cis-1,2-Dichloroethene	ug/L	50	52.2	50.5	104	101	70-130	3	20	
Methylene Chloride	ug/L	50	45.4	45.0	91	90	66-130	.8	20	
Tetrachloroethene	ug/L	50	49.9	47.9	100	96	75-130	4	20	

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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029419

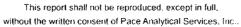
LABORATORY CONTROL SAME	PLE & LCSD: 274776		27	4777						
Parameter	Units	Spike Conc.	LCS Resull	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/L	50	50.9	49.6	102	99	70-130	3	20	
Trichloroethene	ug/L	50	51.6	49.5	103	99	70-130	4	20	
Vinyl chloride	ug/L	50	36.7	36.4	73	73	63-141	.6	20	
4-Bromofluorobenzene (\$)	%-				103	102	70-130			
Dibromofluoromethane (S)	%-				104	105	70-130			
Toluene-d8 (S)	%-				103	103	70-130			

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 27551	5		275516							
			MS	MSD								
	4(029419005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND .	50	50	52.7	53.7	105	107	70-137	2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.3	54.0	105	108	70-130	3	20	
1.1-Dichloroethane	ug/L	ND	50	50	53.4	54.7	106	109	70-130	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.4	45.7	88	91	70-130	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.4	52.2	101	104	69-134	4	20	
2-Butanone (MEK)	ug/L	ND	50	50	49.2	55.0	98	110	36-181	11	35	
betone	ug/L	ND	50	50	44.4	47.5	80	86	10-200	7	36	
₃nzene	ug/L	ND	50	50	52.3	53.5	105	107	69-131	2	20	
Chloroethane	ug/L	ND	50	50	38.1	39.6	76	79	66-136	4	20	
Chloroform	ug/L	ND	50	50	52.9	54.7	104	107	70-130	3	20	
Chloromethane	ug/L	ND	50	50	36.2	37.8	72	76	54-148	4	20	
cis-1,2-Dichloroethene	ug/L	1.3	50	50	53.3	54.8	104	107	70-130	3	20	
Methylene Chloride	ug/L	0.53J	50	50	45.8	46.2	91	91	64-130	.7	20	
Tetrachloroethene	ug/L	1.0	50	50	50.0	50.8	98	100	70-130	2	20	
trans-1.2-Dichloroethene	ug/L	ND	50	50	50.3	51.5	101	103	70-130	2	20	
Trichloroethene	ug/L	2.1	50	50	53.3	54.1	103	104	70-130	1	20	
Vinyl chloride	ug/L	ND	50	50	35.1	35.7	70	71	59-141	2	20	
4-Bromofluorobenzene (S)	%-						101	102	70-130			
Dibromofluoromethane (S)	%-						103	105	70-130			
Toluene-d8 (S)	%-						102	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

QC Batch:

WETA/5968

Analysis Method:

EPA 300.0

QC Batch Method:

EPA 300 0

Analysis Description:

300.0 IC Anions

Associated Lab Samples:

4029419001, 4029419002, 4029419003, 4029419004, 4029419005, 4029419006, 4029419008, 4029419009, 4029419010, 4029419012, 4029419013, 4029419014, 4029419015, 4029419016, 4029419017, 4029419018

METHOD BLANK: 277650

Matrix: Water

Associated Lab Samples:

4029419001, 4029419002, 4029419003, 4029419004, 4029419005, 4029419006, 4029419008, 4029419009,

4029419010, 4029419012. 4029419013, 4029419014, 4029419015, 4029419016. 4029419017. 4029419018

Blank

Reporting

Parameter

Units

Units

4029419001

Result

Result

Limit

Analyzed

Qualifiers

Sulfate

mg/L

ND

4.0 03/22/10 23:20

LABORATORY CONTROL SAMPLE: 277651

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Parameter

Parameter

Parameter

Spike Conc.

MS

Spike

Conc.

MS

20

LCS Result

LCS % Rec

99

% Rec Limits

90-110

Qualifiers

Sulfate

mg/L

Units

Units

mg/L

mg/L

20

19.8

277653

MS

Result

22.4

21.7

MSD

Result

22.2

21.8

MS MSD

91

91

% Rec

Limits

90-110

Max

RPD RPD Qual 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

277654

3.6J

4.1

MSD

MSD

Spike

Conc

20

20

277655

MS

% Rec

% Rec

% Rec

90-110

Sulfate

Sulfate

4029419014 Result

Spike Spike Conc Conc.

20

MS Result

MSD Result

MSD % Rec % Rec Limits

91

Max RPD RPD Qual

20

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9

Green Bay, WI 54302

(920)469-2436

QUALIFIERS

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029419

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1.2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

NALYTE QUALIFIERS

Ρ4 Sample field preservation does not meet EPA or method recommendations for this analysis.

Z2 Analyte present in the associated method blank above the detection limit.

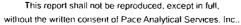
Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless Z3

the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

71243.61 MEDLEY FARMS

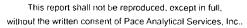
Pace Project No.: 4029419

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
4029419001	B-1	EPA 6010	ICP/3206		
4029419002	MLW-1-1	EPA 6010	ICP/3206		
029419003	MLW-1-2	EPA 6010	ICP/3206		
029419006	MW-2-2	EPA 6010	ICP/3206		
029419007	MLW-1-4	EPA 6010	ICP/3206		
029419008	MLW-3-2	EPA 6010	ICP/3206		
029419009	B-2	EPA 6010	ICP/3206		
029419010	B-3	EPA 6010	ICP/3206		
029419012	B-4	EPA 6010	ICP/3206		
029419013	MW-2-1	EPA 6010	ICP/3206		
029419014	MW-4-1	EPA 6010	ICP/3206		
029419015	MLW-3-3	EPA 6010	ICP/3206		
029419017	MW-4-2	EPA 6010	ICP/3206		
029419018	DU-10101	EPA 6010	ICP/3207		
029419001	B-1	EPA 8260	MSV/7192		
029419002	MLW-1-1	EPA 8260	M\$V/7192		
029419003	MLW-1-2	EPA 8260	MSV/7192		
029419004	MLW-1-3	EPA 8260	MSV/7192		
029419005	MLW-1-4	EPA 8260	MSV/7192		
29419006	MW-2-2	EPA 8260	MSV/7192		
J29419008	MLW-3-2	EPA 8260	MSV/7192		
029419009	B-2	EPA 8260	MSV/7192		
029419010	B-3	EPA 8260	MSV/7192		
029419011	TBLK-10101	EPA 8260	MSV/7192		
029419012	B-4	EPA 8260	MSV/7192		
029419013	MW-2-1	EPA 8260	MSV/7192		
029419014	MW-4-1	EPA 8260	MSV/7192		
029419015	MLW-3-3	EPA 8260	MSV/7192		
029419016	MLW-3-4	EPA 8260	MSV/7192		
029419010	MW-4-2	EPA 8260	MSV/7192		
029419017	DU-10101	EPA 8260	MSV/7192		
029419001	B-1	EPA 300.0	WETA/5968		
029419002	MLW-1-1	EPA 300.0	WETA/5968		
029419002	MLW-1-2	EPA 300.0	WETA/5968		
029419003	MLW-1-3	EPA 300.0	WETA/5968		
029419004	MLW-1-4	EPA 300.0	WETA/5968		
	MW-2-2	EPA 300.0			
029419006 029419008	MLW-3-2	EPA 300.0	WETA/5968 WETA/5968		
		EPA 300.0			
029419009	B-2		WETA/5968		
029419010	B-3	EPA 300.0	WETA/5968		
029419012	B-4	EPA 300.0	WETA/5968		
029419013	MW-2-1	EPA 300.0	WETA/5968		
029419014	MW-4-1	EPA 300.0	WETA/5968		
029419015	MLW-3-3	EPA 300.0	WETA/5968		
029419016	MLW-3-4	EPA 300.0	WETA/5968		
029419017	MW-4-2	EPA 300.0	WETA/5968		
1029419018	DU-10101	EPA 300.0	WETA/5968		

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REPORT OF LABORATORY ANALYSIS

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CHAIN OF CL DY RECORD 4029.419 7736 -

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535 Phone 864/281-0030 • Fax 864/281-0288						Itered (Y		11/	N	4///	
Project No. 71243.61 Project/Client: Farm Project Manager/Contact Person: S. W. bb/L. Clark	umber ainers	×				\ \	 _				PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NoOH
Lab No. Yr. O Date Time Sample Station ID	Total Number of Containers		Þ.C) 	Y /	//	/	Comments: 3-40;11 B	3-350M1 &D
	5	<u>6W</u>	$\frac{1}{}$	$\frac{\vee}{\Delta}$	X.				 	7-401117	1/150MI
003 / 1055 MLW-1-1	5	-	X	X	X			<u> </u>	-		
000 1135 MLW-1-2	5	<u> </u>	Ϋ́	Ϋ́	X				-		1 1 1 1
004 / 1310 MCW-1-3	4	_	X.	Χ.			_		-		(1-350m/A
005 \ 1330 MW-1-4	4		X	X						7	河湖。
000 1 1500 MW-2-2	5		X	X	X						
non 3/10 1425 MCW-1-4	_				X					(F) 413	(t 250in) D
00x 1 1505 MLW-3-2	N		X	Χ	X						
	5		X	Χ	X						
010 1340 B-2 010 1600 B-3	5		X	X	X					1	
SPECIAL INSTRUCTIONS	<u> </u>	<u> </u>	1.(.\			'		'			
1000	5712	-604	1-0	7/08	\						-
SAMPLER Relinquished by Signature) Date/Time Received by (Signature) 3-13-10 FCJEX 3-13-12	Date	e/Time	HAZ.		ASSO(AMPL			Around	•	•	Rush
Relinquished by (Signature) Date/Time Received by (Signature)	Date 4 La	e/Time VYYO		Corr	osive					(For Lab Use O	nly)
FLUEX 17(17)10 0740 (W) Relinquished by (Signature) Date/Time Received by (Signature)	<u> 715</u>	e/Time		Highl Othe	•			eipt Tem p Blank Э	(y)	N	Receipt pH (Wet/Metals)
Custody Seal: Present/Absent Intact/Not Intact Seal #s											







4029419 7736.

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535			_		Filte	red (Ye	es/No)			1//	//		
Phone 864/281-0030 • Fax 864/281-0288		, -	ļ		Preserve		-/-/	<u> </u>	<u> </u>	<u>/ / /</u>		<u> </u>	
Project No. 61 Project/Client: Medley Farm Project Manager/Contact Person: S. Webb/L. Clark	umber ainers	×		Wee.			000					A - B - C -	ESERVED CODES NONE HNO ₃ H ₂ SO ₄ N ₀ OH
Lab No. Yr. (O Date Time Sample Station ID	Total Number of Containers	MATRIX	Ari					/	_	Commer	nts:	F -	— HCI — METHANOL —
011 - TRX-1010	2	DI	X							2-40	MB	·	
018 3/11 1540 B-4	5	GW	X	Χ	X					3-40m			50MIM
013 3/2 1110 MW-2-1	5		X	X	X					ĺ			
014 / 1210 MW-4-1	5		X	Χ	χ	Ţ							
015 / 1055 MLW-3-3	5		X	X	χ								
014 1130 MLW-3-4	4		X	X									1-250m/
on 1310 MW-4-2	8		X	X	V								(
										7			
018 - DU-1010	5	GW	X	X	X								J
SPECIAL INSTRUCTIONS							`— .	<u> </u>					==}-
10								-					
SAMPLER Relinquished by (Signature) Date/Time Received by (Signature) 3-13-10 FeJEX 3-13-	10	e/Time	~	VITH S	ASSOCIA SAMPLES imable	1	Turn Ard				mal	Rush	
Relinquished by (Signature) Date/Time Received by (Signature)		e/Time		Corr	osive					(For Lab U	Jse Onl	y)	
Relinquished by (Signature) Date/Time Received by (Signature)		낙인 re/Time	1	Highl Othe	y Toxic er (list)		Receipt Temp B	t Temp: lank Y	(y)	Ν		Receip (Wet/A	
Custody Seal: Present/Absent Intact/Not Intact Seal #s													

PROJEC K ORDER
Medley Farm - March 2010

Project: Medley Farm

Project Number: 71243.61 Sample Date: March 8 - 23, 2010

Turnaround Time: Standard
Detection Limit: Federal DW MCL where applicable

QC Package: Level 2

RMT format EDD required.

Laboratory: Microseeps

220 William Pitt Way Pittsburgh, PA 15238

Ph: (412) 826-5245 Fax: (412) 826-3433

Contact: Debbie Hallo or Becky Hand

Project Manager: Steve Webb Project Contact: Terry Hertz/L

Project Contact: Terry Hertz/Lisa Clark Laboratory: Pace - Green Bay, WI

1241 Bellevue St. Greenbay, WI 54302

Ph: 1-800-7-ENCHEM Fax: 920-469-8827

Contact: Kang Khang

MCL reporting (NOT MDL unless needed for MCL); "I" (logging; no SIM.

Analyte	VOCs	Field Measured Dissolved Ferrous Iron	Dissolved Manganese	Sulfate	Volatile Fatty Acids	FIELD MEAS pH, DO, ORP, Temp, Spec.	COMMENTS
Method	8260B*	Field Kit	6010B	300.0	AM21G	Cond.	
Bottle	A	В	C	D	E		
Sample ID	į:						Measure water levels on all wells.
MLW-1-3	х	Х	Х	Х	Х	X	
MLW-1-4	Х	Х	Х	Х	Х	X	
MLW-3-1	х	Х	Х	X	Х	X	
MLW-3-2	Х	Х	Х	Х	X	X	
MLW-3-3	Х	Х	Х	Х	Х	Х	
MLW-3-4	х	Х	Х	X	Х	Х	
MW-3D	X	X	Х	Х	Х	X	
MW-2-1	X	Х	X	Х	X	X	
MW-2-2	Х	Х	X	Х	X	X	
MW-4-1	X	X	X	X	X	X	
MW-4-2	Х	Х	X	X _	X	x	
SW-101	Х	x	X	Х	x	x	
SW-102	х	X	X	X	X	Х	
SW-103	Х	Х	Х	X	х	Х	
SW-104	Х	Х	Х	Х	х	Х	
SW-106	Х	х	X	Х	X	x	
SW-108	X	х	X	x	X	х	
SW-109	Х	X	X	Х	×	×	
SW-201	X	X	х	х	x	х	
SW-202	Х	X	Х	х	X	×	
SW-1	х	Х	X	x	x	х	
SW-3	X	x	X	х	×	X	
SW-4	X	х	X	х	х	x	
SWS-1	X			i		X	
SWS-2	x					X	
5WS-3	X					X	
DU-10101	X		X	x	х		collect from groundwater, NOT surface water
DU-10102	x		x	X	X		collect from groundwater, NOT surface water collect from groundwater, NOT surface water

PROJECI K ORDER Medley Farm - March 2010

Laboratory: Microseeps

Ph: (412) 826-5245 Fax: (412) 826-3433 Contact: Debbie Hallo or Becky Hand

Project: Medley Farm

Project Number: 71243.61

Sample Date: March 8 - 23, 2010
Turnaround Time: Standard

Detection Limit: Federal DW MCL where applicable

QC Package: Level 2

RMT format EDD required.

Project Manager: Steve Webb

Project Contact: Terry Hertz/Lisa Clark
Laboratory: Pace - Green Bay, WI

220 William Pitt Way 1241 Bellevue St.
Pittsburgh, PA 15238 Greenbay, WI 54302

Ph: 1-800-7-ENCHEM Fax: 920-469-8827

Contact: Kang Khang

MCL reporting (NOT MDL unless needed for MCL); "J" flagging; no SIM.

Analyte	VOCs	Field Measured Dissolved Ferrous Iron	Dissolved Manganese	Sulfate	Volatile Fatty Acids	FIELD MEAS pH, DO, ORP, Temp, Spec.	COMMENTS
Method	8260B*	Field Kit	6010B	300.0	AM21G	Cond.	
Bottle	A	В	С	D	E		
Sample ID	·						Measure water levels on all wells.
DU-10103	х		x	Х	X		collect from groundwater, NOT surface water
FBLK-10101	х	X	Х	х	х		
RBLK-10101	х	x	x	Х	х		
TBLK-10101	X						
ΓBLK-10102	Х						
FBLK-10103	X				Jan.		
TBLK-10104	X				j.		
TBLK-10105	Х				-		
TBLK-10106	Х						

A - VOCs: three 40 mL septum vials; HCl preservative; ice; HT - 14 days

B - Dissolved Ferrous Iron: Chemetrics field test kit; HT - ASAP

C - Dissolved Manganese: one 125 mL plastic; HNO₃ to pH<2; ice; HT - 6 months

D - Sulfate: one 500 mL plastic; no preservative; ice; HT - 28 days; 14 days

E - Volatile Fatty Acids: two 40 mL clear; no preservative; ice; HT - preferred 14 day

Pace Analytical*

Sample Condition Upon Receipt

Client Name: PMT	_ Projec	ct # <u>40</u>	29419
Courier: Fed Ex F UPS F USPS F Client F Commercial F Pace	- Other		
Tracking #:			
Custody Seal on Cooler/Box Present: yes no Seals intact: yes	ſ no	Optiona	al . Company (Application)
Custody Seal on Samples Present:	┌ no	Proj. Di	ue Date
Packing Material: Rubble Wrap Bubble Bags F None Other		Proj. N	ame:
Thermometer Used Type of Ice: Wey Blue Dry None	-	oles on ice, cool	ing process has begun
Cooler Temperature Cooler Temperature Cooler T			
Temp blank Fresent. 17 yes 1 110	1, 6130	on examining o :	ontents:
Temp should be above freezing to 6°C for all sample except Biota. Biota Samples should be received ≤ 0°C. Comments:	Initia	ls: A	5
Chain of Custody Present: Yes 🗆 No 🗀 N/A 1.			
Chain of Custody Filled Out: \(\text{QYes} \subseteq \text{No} \subseteq \text{N/A} \) 2.			
Chain of Custody Relinquished: QYes □No □N/A 3.			
Sampler Name & Signature on COC: □Yes No □N/A 4.			· · · · · · · · · · · · · · · · · · ·
Samples Arrived within Hold Time: ☐Yes ☐No ☐N/A 5.		.;	
Short Hold Time Analysis (<72hr):			
Rush Turn Around Time Requested: □Yes No □N/A 7.			
Sufficient Volume: QYes □No □N/A 8.		<u>.</u>	
rect Containers Used: Yes \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\) \(\sigma\)			
.ce Containers Used: ☐Yes ☐No ☐N/A			
Containers Intact: Byes DNo DN/A 10.			
Filtered volume received for Dissolved tests ☐Yes QNo ☐N/A 11.			
Sample Labels match COC: Nyes DNo DN/A 12.			
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked. \[\text{\text{Ves}} \ \ \text{\text{No}} \ \ \ \text{\text{INO}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
All containers needing preservation are found to be in			
Initial when	Lot #	ol added	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	prese	ervative	
Samples checked for dechlorination:			
Headspace in VOA Vials (>6mm): □Yes ☐No ☐N/A 15.	 		
Trip Blank Present: \(\text{\text{ZYcs}} \square \text{\text{No}} \square \text{\text{DN/A}} \square 16.			
Trip Blank Custody Seals Present \(\sqrt{Ves}\) □No □N/A			
Pace Trip Blank Lot # (if purchased):	<u></u>	 	···
Client Notification/ Resolution: Person Contacted: Date/Time:	Field	Data Required	? Y / N
Comments/ Resolution:		_	
			+ /
oject Manager Review:		Date: 3	15/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 1 of 20 Lab Proj #: P1003157 Report Date: 04/02/10

Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Laboratory Results

Total pages in data package: <u>34</u>

Lab Sample # Client Sample ID P1003157-01 B-1 P1003157-02 MLW-1-1 P1003157-03 MLW-1-2 P1003157-04 MLW-1-3 P1003157-05 MLW-1-4 P1003157-06 MW-2-2 703157-07 MLW-3-2 03157-08 B-2 r1003157-09 B-3 P1003157-10 B-4 P1003157-11 MW-2-1 P1003157-12 MW-4-1 P1003157-13 MW-4-2 P1003157-14 MLW-3-3 P1003157-15 MLW-3-4 P1003157-16 DU-10101

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By:	Debbie	Dallo	(Hat)	<u>Date:</u>	4.2.10	
Project Manager:	Debbie Hallo					

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.

Please call customer service at (412)826-5245 or email customerservice@microsceps.com.

COC-SIGNED , TEMP-OK; HT-OK; NARR-OK

MBLKS -CLEAN

CSS - RECS OK

MS/MSD- BATCH QC SAMPLE HAS

LOW BUTYRIC ACID REC

AND THREE HIGH RPDS. NO FLAGS SINCE BATCH QC

- MLW-3-2 USED FOR MS/MSD. REGS +RPDS OK,

FIELD DUP - DU-10101 IS A FIELD DUPLICATE OF MW-4-2. NO DETECTIONS

IN DV-10101 OR MW-4-2. Client Name: RMT, Inc.

Page: Page 1 of 20

Contact: Steve Webb

No RPDS TO CALCULATE. Lab Proj #: P1003157

Address: Patewood Plaza One

Report Date: 04/02/10

Suite 100

Client Proj Name: Medley Farm

30 Patewood Drive

Client Proj #: 00-71243.61 T1

Greenville, SC 29615-3535

Laboratory Results

Total pages in data package: 34

Lab Sample #	Client Sample ID
P1003157-01	B-1
P1003157-02	MLW-1-1
P1003157-03	MLW-1-2
P1003157-04	MLW-1-3
P1003157-05	MLW-1-4
P1003157-06	MW-2-2
P1003157-07	MLW-3-2
P1003157-08	B-2
P1003157-09	β-3
P1003157-10	B-4
P1003157-11	MW-2-1
P1003157-12	MW-4-1
P1003157-13	MW-4-2
P1003157-14	MLW-3-3
P1003157-15	MLW-3-4
P1003157-16	DU-10101

No FLAGS | TLA 4/5/10

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By:	Debbie	Hallo	CH4H)	Date:	4.2.10

Project Manager:

Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

> As a valued client we would appreclate your comments on our service. Please call customer service at (412)826-5245 or email customerservice@microsceps.com.

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Page: Page 2 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Case Narrative: The percent recovery for the MS analysis for butyric acid was outside of control limits. The RPD for the MS/MSD analyses for acetic, propionic, and butyric acids was outside of control limits.

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Page: Page 3 of 20 Lab Proj #: P1003157 Report Date: 04/02/10

Client Proj Name: Medley Farm

Sample Description B-1	<u>Matrix</u> Water				Sampled Date/Time 09 Mar. 10 13:50	<u>Received</u> 15 Mar. 10 8:12	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid	UM UM U	< 1.0 < 1.0 < 25.0 < 1.0	1.0 1.0 25.0 1.0	mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G	3/30/10 3/30/10 3/30/10 3/30/10	td td td td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	3/30/10	td

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Page: Page 4 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Sample Description MLW-1-1	<u>Matrix</u> Water				Sampled Date/Time 09 Mar. 10 10:55	<u>Received</u> 15 Mar. 10 8:12	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N. Acetic Acid	М	7.2	1.0	mg/L	AM21G	3/30/10	td
N. Butyric Acid	UM	< 1.0	1.0	mg/L	AM21G	3/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/30/10	td
N Propionic Acid	JM	0:5	1.0	mg/L	AM21G	3/30/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	3/30/10	td

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Page: Page 5 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Matrix	Lah Sample #	Sampled Date/Time	Pagainad

Sample Description MLW-1-2	<u>Matrix</u> Water	Lab Sample # 91003157-03		Sampled Date/Time 09 Mar. 10 11:35	<u>Receiv</u> 15 Mar. 10		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	M UM	24.0 < 1.0	1.0	mg/L	AM21G	3/30/10	td
N Butyric Acid N Lactic Acid N Propionic Acid	U M	< 25.0 4.4	1.0 25.0	mg/L mg/L	AM21G AM21G	3/30/10 3/30/10	td td
N Pyruvic Acid	U	< 10.0	1.0 10.0	mg/L mg/L	AM21G AM21G	3/30/10 3/30/10	td td

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Page: Page 6 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: 00.74043.04 T

Sample Description MLW-1-3	<u>Matrix</u> Water	Lab Sample # P1003157-04				eived 10 8:12	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid N Pyruvic Acid	M M NW MM	< 1.0 < 1.0 < 25.0 2.6 2.5	1.0 1.0 25.0 1.0 10.0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	3/30/10 3/30/10 3/30/10 3/30/10 3/30/10	td td td td td



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Page: Page 7 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Sample Description	<u>Matrix</u>	Lab Sample #		Sampled Date/Time	<u>Receive</u>		
MLW-1-4	Water	P1003157-05		09 Mar. 10 13:30	15 Mar. 10		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid	UM UM	< 1.0 < 1.0	1.0	mg/L mg/L	AM21G AM21G	3/30/10 3/30/10	td td
N Lactic Acid N Propionic Acid N Pyruvic Acid	U	< 25.0	25.0	mg/L	AM21G	3/30/10	td
	UM	< 1.0	1.0	mg/L	AM21G	3/30/10	td
	U	< 10.0	10.0	mg/L	AM21G	3/30/10	td

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Page: Page 8 of 20 Lab Proj #: P1003157

Report Date: 04/02/10 Client Proj Name: Medley Farm

Sample Description MW-2-2	<u>Matrix</u> Water	Lab Sample #- P1003157-06			Sampled Date/Time 09 Mar. 10 15:00	<u>Receive</u> 15 Mar. 10	
Analyte(s):	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles						· · · · · · · · · · · · · · · · · · ·	
N Acetic Acid	UM [,]	< 1.0	1.0	mg/L	AM21G	3/30/10	td
N Butyric Acid	UM	< 1.0	1:0	mg/L	AM21G	3/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/30/10	td
N Propionic Acid	UM	< 1.0 ⁻	1.0	mg/L	AM21G	3/30/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	3/30/10	td

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Page: Page 9 of 20 Lab Proj#: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Sample Description	Matrix Lab Sample # 9			Sampled Date/Time	<u>Received</u>		
MLW-3-2	Water P1003157-07			10 Mar. 10 15:05	15 Mar. 10 8:12		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	:U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	<u>ប</u>	< 1.0°	1.0	mg/L	AM21G	3/31/10	td [.]
N Lactic Acid	ប្រៈ	< 25.0	25.0	mg/L	AM21G	3/31/10	td [.]
N Propionic Acid	년.	< 1.0°	1.0	mg/L	AM21G	3/31/10	td:
N Pyruvic Acid	U:	< 10.0	10:0	mg/L	AM21G	3/31/10	td:

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Page: Page 10 of 20 Lab Proj #: P1003157

Report Date: 04/02/10
Client Proj Name: Medley Farm.

Sample Description B-2	<u>Matrix</u> Water				Sampled Date/Time 10 Mar. 10 13:40	<u>Received</u> 15 Mar. 10 8;12	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles			-				
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Lactic Acid	ij.	< 25.0	25.0	mg/L	AM21G	3/31/10	td⊢
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Pyruvic Acid	U'	< 10:0	10.0	mg/L	AM21.G	3/31/10	td

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Page: Page 11 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Sample Description B-3	<u>Matrix</u> Water	Lab Sample # P1003157-09		Sampled Date/Time 10 Mar. 10 16:00	<u>Receive</u> 15 Mar. 10		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid N Pyruvic Acid	η η η	< 1.0 < 1.0 < 25.0 0.6 < 10.0	1.0 1.0 25.0 1.0 10.0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	3/31/10 3/31/10 3/31/10 3/31/10 3/31/10	td td td td td

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Page: Page 12 of 20 Lab Proj #: P1003157

Report Date: 04/02/10
Client Proj Name: Medley Farm

Sample Description B-4	<u>Matrix</u> Water	Lab Sample # 91003157-10			Sampled Date/Time 11 Mar. 10 15:40	<u>Receiv</u> 1'5 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/31/10	td
N Propionic Acid	. U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	3/31/10	td

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Page: Page 13 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Sample Description MW-2-1	<u>Matrix</u> Water				Sampled Date/Time 12 Mar. 10 11:10	<u>Received</u> 15 Mar. 10 8:12	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/31/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	3/31/10	td

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Page: Page 14 of 20 Lab Proj #: P1003157 Report Date: 04/02/10

Client Proj Name: Medley Farm

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Client Proj #:	00-71243.61 T

Sample Description MW-4-1	<u>Matrix</u> Water		b Sample 003157-1		Sampled Date/Time 12 Mar. 10 12:10	<u>Receiv</u> 15 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
	U	< 25.0	25.0	mg/L	AM21G	3/31/10	ld
N Propionic Acid	U	1.6	1.0	mg/L	AM21G	3/31/10	ld
N Pyruvic Acid		< 10.0	10.0	mg/L	AM21G	3/31/10	td

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Page: Page 15 of 20 Lab Proj #: P1003157 Report Date: 04/02/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Sample Description MW-4-2	<u>Matrix</u> Water		b Sample 003157-1		Sampled Date/Time 12 Mar. 10 13:10	Receive 15 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles	·						
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	tď
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/31/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	A M 21G	3/31/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	3/31/10	td

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Page: Page 16 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Sample Description MLW-3-3	<u>Matrix</u> Water		b Sample 003157-1		Sampled Date/Time 12 Mar. 10 10:55	<u>Receive</u> 15 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	J	0.9	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/31/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Pyruvic Acid	J	4.5	10.0	mg/L	AM21G	3/31/10	td

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30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 17 of 20 Lab Proj # P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Sample Description MLW-3-4	<u>Matrix</u> Water		b Sample 003157-1		Sampled Date/Time 12 Mar. 10 11:30	<u>Receiv</u> 15 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N. Acetic Acid N. Butyric Acid	U U	< 1.0 < 1.0	1.0 1.0	mg/L mg/L	AM21G AM21G	3/31/10 3/31/10	td td
N Lactic Acid N Propionic Acid N Pyruvic Acid	1 U	< 25.0 < 1.0 1.7	25.0 1.0 10.0	mg/L mg/L mg/L	AM21G AM21G AM21G	3/31/10 3/31/10 3/31/10	td td td

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 18 of 20 Lab Proj #: P1003157 Report Date: 04/02/10

Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Sample Description DU-10101	<u>Matrix</u> Water		b Sample 1003157-1		Sampled Date/Time 12 Mar. 10 0:00	<u>Receiv</u> 15 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Butyric Acid	υ	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	3/31/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	3/31/10	td
N Pyruvic Acid	υ	< 1.0.0	10.0	mg/L	AM21G	3/31/10	td

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

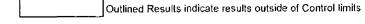
Greenville, SC 29615-3535

Page: Page 19 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Prep Method: Analysis of Volatile Fatty Acids in WaterAnalysis Method: Analysis of Volatile Fatty Acids in Water

M100331008-MB

	Result	TrueSpikeConc. F	RDL %Recovery	Ctl Limits		
Acetic Acid	< 1.0 mg	ýL ·	1.0	- NA		
Propionic Acid	< 1.0 mg	γL ·	1.0	- NA		
Butyric Acid	< 1.0 mg	yl ·	1.0	- NA		
Lactic Acid	< 25.0 mg	yL 2	25.0	- NA		
Pyruvic Acid	< 10.0 mg	_g /L 1	0.0	- NA		
M100331008-LCS						
	Result	TrucSpikeConc.	%Recovery	Ctl Limits		
etic Acid	110.0 mg	g/L 100.00	110.00	70 - 130		
Propionic Acid	110.0 mg	g/L 100.00	110.00	70 - 130		
Butyric Acid	97.0 mg	g/L 100.00	97.00	70 - 130		
Lactic Acid	100.0 mg	g/L 100.00	100.00	70 - 130		
Pyruvic Acid	110.0 mg	g/L 100.00	110.00	70 - 130		
P1003147-02A-MS						
	Result	TrueSpikeConc.	%Recovery	Ctl Limits		
Acetic Acid	85.0 mg	⊈/L 100.00	85.00	70 - 130		
Propionic Acid	76.0 mg	g/L 100.00	76.00	70 - 130		
Butyric Acid	61.0 mg	g/L 100.00	61.00	70 - 130		
Lactic Acid	90.0 mg	g/L 100.00	90.00	70 - 130		
Pyruvic Acid	120.0 mg	yL 100.00	120.00	70 - 130		
P1003147-02A-MSD						
	Result	TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	110.0 mg	y∕L 100.00	110.00	70 - 130	25.64	0 - 20
Propionic Acid	110.0 mg	g/L 100.00	110.00	70 - 130	36.56	0 - 20
Butyric Acid	96.0 mg	g/L 100.00	96.00	70 - 130	44.59	0 - 20
Lactic Acid	110.0 mg	Z/L 100.00	110.00	70 - 130	20.00	0 - 20
Pyruvic Acid	120.0 mg	g/L 100.00	120.00	70 - 130	0.00	0 - 20





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Page: Page 20 of 20 Lab Proj #: P1003157 Report Date: 04/02/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Prep Method: Analysis of Volatile Fatty Acids in Water

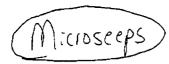
Analysis Method: Analysis of Volatile Fatty Acids in Water

M100401036-MB

	Result		TrucSpikeConc.	RDL	%Recovery	Ctl Limits		
Acetic Acid	< 1.0	mg/L		1.0		- NA		
Propionic Acid	< 1.0	mg/L		1.0		- NA		
Butyric Acid	< 1.0	mg/L		1.0		- NA		
Lactic Acid	< 25.0	mg/L		25.0		- NA		
Pyruvic Acid	< 10.0	mg/L		10.0		- NA		
M100401036-LCS								
	Result		TrucSpikeConc.		%Recovery	Ctl Limits		
Acetic Acid	92.0	mg/L	100.00		92.00	70 - 130		
Propionic Acid	83.0	mg/L	100.00		83.00	70 - 130		
Butyric Acid	73.0	mg/L	100.00		73.00	70 - 130		
ctíc Acid	100.0	mg/L	100.00		100.00	70 - 130		
, yruvic Acid	100.0	mg/L	100.00		100.00	70 - 130		
P1003157-07A-MS								
	Result		TrucSpikeConc.		%Recovery	Ctl Limits		
Acetic Acid	88.0	mg/L	100.00		88.00	70 - 130		
Propionic Acid	87.0	mg/L	100.00		87.00	70 - 130		
Butyric Acid	79.0	mg/L	100.00		79.00	70 - 130		
Lactic Acid	100.0	mg/L	100.00		100.00	70 - 130		
Pyruvic Acid	100.0	mg/L	100.00		100.00	70 - 130		
P1003157-07A-MSD								
	Result		TrueSpikeConc.		%Recovery	Ctl Limits	<u>RPD</u>	RPD Ctl Limits
Acetic Acid	100.0	mg/L	100.00		100.00	70 - 130	12.77	0 - 20
Propionic Acid	94.0	mg/L	100.00		94.00	70 - 130	7.73	0 - 20
Butyric Acid	88.0	mg/L	100.00		88.00	70 - 130	10.78	0 - 20
Lactic Acid	87.0	mg/L	100.00		87.00	70 - 130	13.90	0 - 20
Pyruvic Acid	90.0	mg/L	100.00		90.00	70 - 130	10.53	0 - 20







RICIOSCEPS CHAIN OF CUSTODY RECORD P1003157 77306

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535			-	Fi	iltered (Y	es/No) /	1/	//	7	///
Phone 864/281-0030 • Fax 864/281-0288				Preser	ved (Coc	le) A	7		///	
Project No. 3.61 Project/Client Medle/ Farm Project Manager/Contact Person: S. Webb/L. Clark	umber ainers	X	And Y							PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₂ D — NaOH
Lab No. Yr. Date Time Sample Station ID	Total Number of Containers	MATRIX	Pro.					<u>//c.</u>	omments:	E — HCI F — METHANOL G —
1 3/9 1350 B-1	2	GW	X							
7 / 1055 MLW-1-1	2		X	<u> </u>						
3 / 1135 MLW-1-2	\mathbb{Q}		X							
1 1310 MLW-1-3	2		X							
5 \ 1330 MLW-1-4	2		X							
6 1 1500 MW-2-2	2		X							
7 3/10 1505 MLW-3-2	2		X	\top					 .	
8 / 1340 B-2	Q		ľγ							
9 1600 8-3	1		Y	_						
D 3/11 1540 B-4	2		IX I							
SPECIAL INSTRUCTIONS			1		<u> </u>		ļļ			
	8/28	<u>D-8</u>	<u> </u>	17/2	ζ			<u>.</u>	 	
SAMPLER Relinquished by (Signature) Date/Time Received by (Signature) Relinquished by (Signature) Date/Time Received by (Signature)	Do Do	le/Time	HAZARE WIT		CIATED PLES			cle one)	Normal	Rush
kerinquisned by (Signature)	Da	re/ Hme		Corrosive	!			(Fo	r Lab Use O	nly)
Relinquished by (Signature) Date/Time Received by (Signature)	Do	te/Time	١ _ ـ	ghly Tox Other (list			t Temp: Slank	ΥN		Receipt pH (Wet/Metals)
Custody Seal: Present/Absent Intact/Not Intact Seal #s	· /	•								





CHAIN OF CUSTODY RECORD ?1003157 77307

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535 Phone 864/281-0030 • Fax 864/281-0288				Pre	comed :	d (Yes, (Code)	///	7	/	///	
Project No. 11243.61 Project/Client Medley Farm Project Manager/Contact Person: S. Webb/L. Clark	mber iiners	~		11/2 P							PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₃
Lab No. Yr. [O Date Time Sample Station ID	Total Number of Containers	MATRIX	Pric		9/					Comments:	D — №OH E — HCI F — METHANOL G —
11 3/2 1110 MW-2-1 12 / 1210 MW-4-1 13 1310 MW-4-2	222	GW T	X			-					
14 1055 MLW-3-3 15 1130 MLW-3-4	22		X X								
					_						
16 — DU-10101						-					
SPECIAL INSTRUCTIONS											
SAMPLER Relinquished by (Signature) 3-D-10 Relinquished by (Signature) Date/Time Received by (Signature)	0	e/Time e/Time	\ 	ARDS AS	MPLES able		Turn Arc Report D				Rush
Relinquished by (Signature) Date/Time Received by (Signature)	Dal 3//:	e/Time		Corros Highly Other	Toxic		Receip Temp B			(For Lab Use (Only] Receipt pH (Wet/Metals)
Custody Seal: Present/Absent Intact/Not Intact Seal #s											

Cooler Receipt Form

Client:RMT, Inc. Client Code:RMTSC P1003157 LabProject #: Project: Medley Farm Cooler ID: 1 3/15/2010 A. Preliminary Examination Phase: Date cooler opened: Cooler opened by: dp 1. Was airbill Attached? N/A Airbill #; Carrier Name: FedEx N/A 0 Seal Name: 2. Custody Seals? How many? Location: 3. Seals intact? Yes 4. Screened for radiation? N/A 5. COC Attached? Yes Properly Completed? Yes Signed by employee? Yes 6. Project Identification from custody paper: Medley Farm 7. Preservative: Yes · Temperature: Comments: B. Log-In Phase: Samples Log-in Date: 3/15/2010 Log-in By: dр Other 1. Packing Type: Were samples in separate bags? N/A 3. Were containers intact? Yes Labels agree with COC? Yes 4. Number of bottles received: 32 Number of samples received: 16 5. Correct containers used? Yes Correct preservatives added? N/A 6. Sufficient sample volume? Yes N/A 7. Bubbles in VOA samples? N/A 8. Was Project manager called and status discussed? Comments:

Have designate person initial here to acknowledge receipt of cooler:

Date: 3/5/18

	Micros	eeps Project Number:	1003157
Date:		Receiver:	
Client:			
REASON FOR NO	ON-CONFORMANCE:		
			
			
		··	
			
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
	•		
TION TAKEN:		-1/	
nt name: _ ZW	re. Webb	Date: 3/15	Time:
ρ.			
lift m	ussage does h	e want the dupe	analyz
\mathcal{O}	V	e want the dupe	O O
\mathcal{O}	V	¥	O O
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\mathcal{O}	V	will call back us on dupe	O O
\mathcal{O}	V	¥	O O
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April 02, 2010

Mark Bailey RMT Greenville 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4029585

Dear Mark Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

Kasa Kla

kang.khang@pacelabs.com Project Manager

Enclosures



ce Analytical

COC-SIGNED TEMP-OK, HT-OK, NARR-OK SURR-RECS OK

MBLKS -CLEAN

LCS - RECS OK

Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

April 02, 2010

MS/MSD- Mn, DISS - BATCH QC, RECS AND RPD OK. - SW-4 USED FOR MS/MSD, RECS AND RAD OK.

- VOCS - BATCH QC, RECS AND RPDSOK

Mark Bailey RMT Greenville 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

- 504 - BATCH QC, RECS AND RPDOK - DP-3-2 USED FOR MS/MSD, RPD OK, RECS LOW FOR MS AND MSD.

FLAG APPLIED TO SULFATE IN

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4029585

Dear Mark Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kash Kly

Kang Khang

kang.khang@pacelabs.com **Project Manager**

Enclosures

WATELEBLANK - 0,49 Jugl METHYLENE CHLORIDE RBLK-10101 - 0.62 J ugll METHYLENE CHLORIDE - 2.6 Jug/L DISSOLVED Mn FBLK-10101 - 0.125 Mg/L DISSOLVED Mn
- 5.0 Jug/L ACETONE
- 0.58 Jug/L METHYLENE CHLORIDE

A "U" FLAG IS ASSIGNED TO METHYCENE CHLORIDE IN THE FOLLOWING SAMPLES: SWS-3, SWS-2, A-1, BW-2, DP-2-1, DP-3-1 AND DP-3-2.

A'M" FLAG IS ASSIGNED TO DISSOLVED MANGANESE REPORT OF LABORATORY ANALYSIS IN BW-105 AND BW-2 Page 1 of 28

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CERTIFICATIONS

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 40

4029585

Green Bay Certification IDs

California Certification #: 09268CA Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 11887 New York Certification #: 11888 North Carolina Certification #: 503 North Dakota:Certification #: R-150 South Carolina Certification:#: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification.#: 105-444 1241 Bellevue Street Green Bay, W! 54302







SAMPLE SUMMARY

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029585

				5.5.
Lab ID	Sample ID	Matrix	Date Collected	Date Received
4029585001	DP-3-2	Water.	03/15/10 13:20	03/19/10 10:10
4029585002	DP-3-1	Water	03/15/10 18:20	03/19/10 10:10
4029585003	DP-2-1	Water	03/16/10 11:40	03/19/10 10:10
4029585004	BW-105	Water	03/16/10 14:45	03/19/10 10:10
4029585005	SW-4	Water	03/16/10 15:20	03/19/10 10:10
4029585006	BW-2	Water	03/16/10 16:20	03/19/10 10:10
4029585007	A-1	Water	03/17/10 15:20	03/19/10 10:10
4029585008	A-2	Waler	03/18/10 13:00	03/19/10 10:10
4029585009	FBLK 10101	Water	03/18/10 12:20	03/19/10 10:10
4029585010	RBLK 10101	Water	03/18/10 13:50	03/19/10 10:10
4029585011	SWS-1	Water	03/18/10 14:15	03/19/10 10:10
4029585012	SWS-2	Water	03/18/10 14:35	03/19/10 10:10
4029585013	SWS-3	Water	03/18/10 15:50	03/19/10 10:10
4029585014	TRIP BLANK	Water	03/18/10 00:00	03/19/10 10:10







SAMPLE ANALYTE COUNT

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029585

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4029585001	DP-3-2	EPA 6010	DL8	1,	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029585002	DP-3-1	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029585003	DP-2-1	EPA 6010	DLB	1:	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	4-	PASI-G
029585004	BW-105	EPA:6010	DLB	1	PASI-G
		EPA 8260	SMT	20	'PASI-G
		EPA 300.0	DDY	1	PASI-G
029585005	SW-4	EPA:6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
)29585006	BW-2	EPA 6010	IDLB	1	PASI-G
		EPA 8260 ⁻	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029585007	A-1	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029585008	A-2	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300:0	DDY	1	PASI-G
029585009	FBLK 10101	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20.	PASI-G
		EPA 300:0	DDY	1	PASI-G
029585010	RBLK 10101	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300/0	DDY	1	PASI-G
029585011	SWS-1	EPA.8260	SMT	20	PASI-G
029585012	SWS-2	EPA 8260	SMTi	20	PASI-G
029585013	SWS-3	EPA 8260	SMT	20	PASI-G
029585014	TRIP BLANK	EPA 8260	SMT	20	PASI-G

REPORT OF LABORATORY ANALYSIS

Page 4 of 28

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PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

Method:

EPA 6010

Description: 6010 MET ICP. Dissolved **Client:** RMT - GREENVILLE

Date:

April 02, 2010

General Information:

10 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

Haboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





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Green Bay, WI 54302

(920)469-2436

PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

Method:

EPA 8260

Client:

Description: 8260 MSV **RMT - GREENVILLE**

Date:

April 02, 2010

General Information:

14 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

urrogates:

surrogates were within QC limits with any exceptions noted below.

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:







PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

Method:

EPA 300.0

Description: 300.0 IC Anions 28 Days Client:

RMT - GREENVILLE

Date: April 02, 2010

General Information:

10 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

laboratory control spike compounds were within QC limits with any exceptions noted below.

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/6055

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4029585001,4029690001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 281191)
 - Sulfate
- MS (Lab ID: 281193)
 - Chloride
- MSD (Lab ID: 281192)
 - Sulfate
- MSD (Lab ID: 281194)
 - Chloride

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 7 of 28

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Project:

71243.61 MEDLEY FARMS

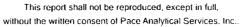
Pace Project No.: 4029585

Sample: DP-3-2	Lab ID: 4029585	001 Collecte	d: 03/15/10	13:20	Received: 03	3/19/10 10:10 Ma	atrix: Water	_
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: i	EPA 6010						
Manganese, Dissolved	3380 ug/L	5.0	0.12	1		03/30/10 18:58	7439-96-5	
8260 MSV	Analytical Method: I	EPA 8260						
Acelone	ND ug/l.	50.0	12.5	2.5		03/22/10 16:52	67-64-1	
Benzene	ND ug/L	2.5	1.0	2.5		03/22/10 16:52	71-43-2	
2-Butanone (MEK)	ND ug/L	50.0	10.8	2.5		03/22/10 16:52	78-93-3	
Chloroethane	ND ug/L	2.5	2.4	2.5		03/22/10 16:52	75-00-3	
Chloroform	ND ug/L	12.5	3.2	2.5		03/22/10 16:52	67-66-3	
Chloromethane	ND ug/L	2.5	0.60	2.5		03/22/10 16:52	74-87-3	
1.1-Dichloroethane	2.0J ug/L	2.5	1.9	2.5		03/22/10 16:52	75-34-3	
1,2-Dichloroethane	142 ug/L	2 5	0.90	2.5		03/22/10 16:52	107-06-2	
1,1-Dichloroethene	4.3 ug/L	2.5	1.4	2.5		03/22/10 16:52	75-35-4	
cis-1,2-Dichloroethene	264 ug/L	2.5	2.1	2.5		03/22/10 16:52	156-59-2	
trans-1,2-Dichloroethene	17.0 ug/L	2.5	2.2	2.5		03/22/10 16:52	156-60-5	
Methylene Chloride	1.2J ug/L	2.5	1.1	2.5		03/22/10 16:52	75-09-2	Z3
Tetrachloroethene	ND ug/L	2.5	1.1	2.5		03/22/10 16:52	127-18-4	
1,1-Trichloroethane	ND ug/L	2.5	2.2	2.5		03/22/10 16:52	71-55-6	
.2-Trichloroethane	8.4 ug/L	2.5	1.0	2.5		03/22/10 16:52	79-00-5	
richloroethene	4.1 ug/L	2.5	1.2	2.5		03/22/10 16:52	79-01-6	
Vinyl chloride	147 ug/L	2.5	0.45	2.5		03/22/10 16:52	75-01-4	
4-Bromofluorobenzene (S)	93 %-	70-130		2.5		03/22/10 16:52	460-00-4	
Dibromofluoromethane (S)	93 %-	70-130		2.5		03/22/10 16:52	1868-53-7	
Toluene-d8 (S)	96 %-	70-130		2.5		03/22/10 16:52	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: I	EPA 300.0						
Sulfate	3.5J mg/L	4 0	2.0	1		03/31/10 23:13	14808-79-8	M0

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Project:

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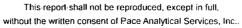
Pace Project No.: 4029585

Sample: DP-3-1	Lab ID:	4029585002	Collecte	d: 03/15/10	18:20	Received: 03	3/19/10 10:10 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS.No.	Qual
6010 MET ICP, Dissolved	Analyticalil	Method: EPA 6	010						
Manganese, Dissolved	2700 ug	₃ /L	5.0	0.12	1		03/30/10 19:02	7439-96-5	
8260 MSV	Analytical®	Method: EPA-8	260						
Acetone	ND ug	₃ /L	20.0	5.0	1		03/22/10 15:42	67-64-1	
Benzene	ND ug	3/L	1:0	0.41	1		03/22/10 15:42	71-43-2	
2-Butanone (MEK)	ND ·ug	} /∟	20.0	4.3	1		03/22/10 15:42	78-93-3	
Chloroethane	ND ug	_J /L	1:0	0.97	1		03/22/10 15:42	75-00-3	
Chloroform	ND ug	J/L	5.0	1.3	1		03/22/10 15:42	67-66-3	
Chloromethane	ND ug	J/L	1.0	0.24	1		03/22/10 15:42	74-87-3	
1,1-Dichloroethane	2.1 ug	_J /L	1.0	0.75	1		03/22/10 15:42	75-34-3	
1,2-Dichloroethane	13.3 ug	_J /L	1.0	0.36	1		03/22/10 15:42	107-06-2	
1,1-Dichloroethene	0.64 'J ug	3 /L	1.0	0.57	1		03/22/10 15:42	75-35-4	
cis-1,2-Dichloroethene	17.8 .ug	_J /L	1.0	0.83	1		03/22/10 15:42	156-59-2	
trans-1,2-Dichloroethene	2:0 ug		1.0	0.89	1		03/22/10 15:42	156-60-5	
Methylene Chloride	0.47J ug	j/L	1.0	0.43	1		03/22/10 15:42	75-09-2	Z3
Tetrachloroethene	ND ug	;/L	1.0	0.45	1		03/22/10 15:42	127-18-4	
1,1-Trichloroethane	ND ug]/L	1.0	0.90	1		03/22/10 15:42	71-55-6	
,2-Trichloroethane	1.3 ug	₃/L	1.0	0.42	1		03/22/10 15:42	79-00-5	
richloroethene	0.62J ug	₃ /L	1.0	0.48	1		03/22/10 15:42	79-01-6	
Vinylichloride	32.3 .ug	J/L	1.0	0.18:	1.		03/22/10 15:42	75-01-4	
4-Bromofluorobenzene (S)	92 %	-	70-130		1		03/22/10 15:42	460-00-4	
Dibromofluoromethane (S)	91 %	-	70-130		1		03/22/10 15:42	1868-53-7	
Toluene-d8 (S)	94 %	-	70-130		1		03/22/10 15:42	2037-26-5	
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	0.00						
Sulfate	3.29 mg	g/L	4.0	2:0	1.		04/01/10 00:14	14808-79-8	

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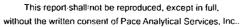
Pace Project No.: 4029585

Sample: DP-2-1	Lab ID: 40295850	03 Collecte	d: 03/16/10	0 11:40	Received: 03	3/19/10 10:10 N	Matrix: Water	
Parameters	Results Units	PQL	MDL	-DF	Prepared	Analyzed	CAS:No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	PA 6010						
Manganese, Dissolved	1990 ug/L	5:0	0.12	1		03/30/10 19:06	3 7439-96-5	
8260 MSV	Analytical;Method: E	PA 8260						
Acetone	ND ug/L	80:0	20.0	4		03/22/10 17:10	6-67-64-1	
Benzene	ND ug/L	4:0	1.6	4		03/22/10 17:10	3 71-43-2	
2-Butanone (MEK)	ND ug/L	80.0	1:7.2	4		03/22/10 17:10	3 78-93-3	
Chloroethane	ND ug/L	4:0	3.9	4		03/22/10 17:10	3 75-00-3	
Chloroform	ND ug/L	20:0	5.2	4		03/22/10 17:10	6 67-66-3	
Chloromethane	ND ug/L	4.0	0.96	4		03/22/10 17:16	3 74-87-3	
1,1-Dichloroethane	ND ug/L	4.0	3.0	4		03/22/10 17:10	5 7.5-34-3	
1,2-Dichloroethane	2.3J -ug/L	4:0	1.4	4		03/22/10 17:16	3 107-06-2	
1,1-Dichloroethene	ND ug/L	4:0	2.3	4		03/22/10 17:10	3 7:5-35-4	
cis-1,2-Dichloroethene	57.5 ug/L	4:0	3.3	4		03/22/10 17:16	5 156-59-2	
trans-1,2-Dichloroethene	ND ug/L	4.0	3.6	4		03/22/10 17:10	5 156-60-5	
Methylene Chloride	2.0J .ug/L	4.0	1.7	4		03/22/10 17:16	3 75-09-2	Z3
Tetrachloroethene	196 ug/L	4.0	1.8	4		-03/22/10 17:10	3 127-18-4	
1,1-Trichloroethane	ND ug/L	4.0	3.6	4		03/22/10 17:10	6 71-55-6	
,2-Trichloroethane	ND ug/L	4.0	1.7	4		03/22/10 17:10	5 79-00-5	
ichloroethene	79.0 ug/L	4.0	1.9	4		03/22/.10 17:16	3 79-01-6	
Vinyl-chloride	12.3 ug/L	4.0	0.72	4		03/22/10 17:16	6 75-01-4	
4-Bromofluorobenzene (S)	91 %-	70-130		4		03/22/10 17:16	6 460-00-4	
Dibromofluoromethane (S)	91 %-	7.0-130		4		03/22/10 17:10	5 1868-53-7	
Toluene-d8 (S)	96 %-	70-130		4		03/22/40 17:16	3 2037-26-5	
300:0 IC Anions 28 Days	Analytical Method: E	PA 300.0						
Sulfate	7.9 mg/L	4.0	2.0	1		04/01/10 00:26	6 14808-79-8	

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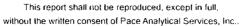
Pace Project No.: 4029585

Sample: BW-105	Lab ID: 40295850	004 Collecte	d: 03/16/10	0 14:45	Received: 03	3/19/10 10:10 N	Matrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	EPA 6010						
Manganese, Dissolved	4.5J ug/L	5.0	0.12	1		03/30/10 19:18	8 7439-96-5	
8260 MSV	Analytical Method: E	EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/22/10 13:2:	2 67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/22/10 13:2:	2 71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/22/10 13:2:	2 78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/22/10 13:2:	2 75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/22/10 13:2:	2 67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/22/10 13:2:	2 74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/22/10 13:2:	2 75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/22/10 13:2:	2 107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/22/10 13:2:	2 75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/22/10 13.23	2 156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/22/10 13:2:	2 156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/22/10 13:2:	2 75-09-2	
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/22/10 13:2:	2 127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/22/10 13:2:	2 7 1- 55-6	
.2-Trichloroethane	ND ug/L	1.0	0.42	1		03/22/10 13:2:	2 79-00-5	
, richloroethene	ND ug/L	1.0	0.48	1		03/22/10 13:2:	2 79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		03/22/10 13:2:	2 75-01-4	
4-Bromofluorobenzene (S)	92 %-	70-130		1		03/22/10 13:2:	2 460-00-4	
Dibromofluoromethane (S)	91 %-	70-130		1		03/22/10 13:2:	2 1868-53-7	
Toluene-d8 (S)	96 %-	70-130		1		03/22/10 13:2:	2 2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: E	EPA 300.0						
Sulfate	2.0J mg/L	4.0	2.0	1		04/01/10 00:38	8 14808-79-8	

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ANALYTICAL RESULTS

Project:

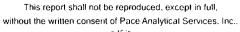
71243.61 MEDLEY FARMS

Pace Project No.: 4029585

Sample: SW-4	Lab ID:	4029585005	Collecte	d: 03/16/10	15:20	Received: 03	3/19/10 10:10 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA (6010						
Manganese, Dissolved	325 ug	g/L	5.0	0.12	1		03/30/10 19:34	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND ug	g/L	20.0	5.0	1		03/22/10 16:06	67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/22/10 16:06	71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4.3	1		03/22/10 16:06	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/22/10 16:06	75-00-3	
Chloroform	8.1 ug	g/L	5.0	1.3	1		03/22/10 16:06	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/22/10 16:06	74-87-3	
1,1-Dichloroethane	1.2 ug	g/L	1.0	0.75	1		03/22/10 16:06	75-34-3	
1.2-Dichloroethane	0.65J u	g/L	1.0	0.36	1		03/22/10 16:06	107-06-2	
1.1-Dichloroethene	16.3 ug	g/L	1.0	0.57	1		03/22/10 16:06	75-35-4	
cis-1,2-Dichloroethene	ND us	g/L	10	0.83	1		03/22/10 16:06	156-59-2	
trans-1,2-Dichloroethene	ND ug	g/L	1.0	0.89	1		03/22/10 16:06	156-60-5	
Methylene Chloride	ND ug	g/L	1.0	0.43	1		03/22/10 16:06	75-09-2	
Tetrachloroethene	3.3 ug	g/L	1.0	0.45	1		03/22/10 16:06	127-18-4	
1,1-Trichloroethane	7.6 ug	g/L	1.0	0.90	1		03/22/10 16:06	71-55-6	
.2-Trichloroethane	2.7 us		1.0	0.42	1		03/22/10 16:06	79-00-5	
richloroethene	31.8 ug	g/L	1.0	0.48	1		03/22/10 16:06	79-01-6	
Vinyl chloride	ND u	g/L	1.0	0.18	1		03/22/10 16:06	75-01-4	
4-Bromofluorobenzene (S)	92 %	_	70-130		1		03/22/10 16:06	460-00-4	
Dibromofluoromethane (S)	93 %	>-	70-130		1		03/22/10 16:06	1868-53-7	
Toluene-d8 (S)	96 %)-	70-130		1		03/22/10 16:06	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	ND m	ıg/L	4.0	2.0	1		04/01/10 00:51	14808-79-8	

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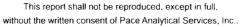
Pace Project No.: 4029585

Sample: BW-2	Lab ID:	4029585006	Collecte	d: 03/16/10	16:20	Received: 03	3/19/10 10:10 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA	6010						
Manganese, Dissolved	3.8J u	g/L	5.0	0.12	1		03/30/10 19:46	7439-96-5	
8260 MSV	Analytical	Method: EPA	8260						
Acetone	ND u	g/L	20.0	5.0	1		03/22/10 13:45	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/22/10 13:45	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/22/10 13:45	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/22/10 13:45	75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1		03/22/10 13:45	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		03/22/10 13:45	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/22/10 13:45	75-34-3	
1.2-Dichloroethane	0.37J u	g/L	1.0	0.36	1		03/22/10 13:45	107-06-2	
1,1-Dichloroethene	1.1 u	g/L	1.0	0.57	1		03/22/10 13:45	75-35-4	
cis-1,2-Dichloroethene	6.2 u		1.0	0.83	1		03/22/10 13:45	156-59-2	
trans-1,2-Dichloroethene	ND u		1.0	0.89	1		03/22/10 13:45	156-60-5	
Methylene Chloride	0.44J u	g/L	1.0	0.43	1		03/22/10 13:45	75-09-2	Z3
Tetrachloroethene	6.8 u	g/L	1.0	0.45	1		03/22/10 13:45	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/22/10 13:45	71-55-6	
,2-Trichloroethane	0.84J u		1.0	0.42	1		03/22/10 13:45	79-00-5	
richloroethene	17.6 u	g/L	1.0	0.48	1		03/22/10 13:45	79-01-6	
Vinyl chloride	ND u		1.0	0.18	1		03/22/10 13:45	75-01-4	
4-Bromofluorobenzene (S)	94 %		70-130		1		03/22/10 13:45	460-00-4	
Dibromofluoromethane (S)	93 %	o-	70-130		1		03/22/10 13:45	1868-53-7	
Toluene-d8 (S)	96 %) -	70-130		1		03/22/10 13:45	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	2.8J m	ng/L	4.0	2.0	1		04/01/10 01:03	14808-79-8	

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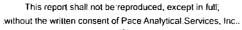
Pace Project No.: 4029585

Sample: A-1	Lab/ID:	4029585007	Collected	: 03/17/10	0-15:20	Received: 03	3/19/10 10:10 M	latrix: Water	
Parameters	Results	Units	PQL _	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010						
Manganese, Dissolved	4350 սվ	g/L	5.0	0.12	1		03/30/10 19:50	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	260						
Acetone	ND ug	g/L	20.0	5.0	1		03/22/10 16:29	67-64-1 [,]	
Benzene	ND ug	g/L	1.0	0.41	1		03/22/10 16:29	71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4.3	1		03/22/10 16:29	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/22/:10 16:29	7.5-00-3	
Chloroform	ND ug	g/L	5.0	1.3	1		03/22/10 16:29	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/22/10 16:29	7.4-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75 ⁻	1		03/22/10 16:29	75-34-3	
1,2-Dichloroethane	1:4 ug	g/L	1.0	0.36	1		03/22/10 16:29	107-06-2	
1,1-Dichloroethene	ND ug	g/L	1.0	0.57	1		03/22/10 16:29	75-35-4	
cis-1,2-Dichloroethene	-6.7 ug		1:0	0.83	1		03/22/10 16:29	156-59-2	
trans-1,2-Dichloroethene	ND ug	-	1:0	0.89	1		03/22/10 16:29	156-60-5	
Methylene Chloride	0.49J ug	g/L	1:0	0.43	1		03/22/10 16:29	75-09-2	Z3
Tetrachloroethene	ND ug	g/L	1:0	0.45	1		03/22/10 16:29	127-18-4	
1,1-Trichloroethane	ND ug	g/L	1:0	0.90	1		03/22/10 16:29	71-55-6	
,2-Trichloroethane	ND ug	g/L	1:0	0.42	1		03/22/10 16:29	79-00-5	
richloroethene	1.0 ug	g/L	1:0	0.48	1		03/22/10 16:29	79-01-6	
Vinyl-chloride	3.4 ug	g/L	1:0	0.18	1		03/22/10 16:29	75-01-4	
4-Bromofluorobenzene (S)	93 %	,-	70-130		1		03/22/10 16:29	460-00-4	
Dibromofluoromethane (S)	94 %	,-	70-130		1		03/22/10 16:29	1868-53-7	
Toluene-d8 (S)	96 %	, -	70-130		1		03/22/10 16:29	2037-26-5	
300:0 IC Anions 28 Days	Analytical	Method: EPA 3	0.00						
Sulfate	4.1 m	g/L	4.0	2.0	1		04/01/10 01:15	14808-79-8	

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Pace Project No.:

4029585

Sample: A-2	Lab ID: 40295850	08 Collecte	Collected: 03/18/10 13:00 F		Received: 03/19/10 10:10 Matrix: Water			
Parameters	Results Units	PQL	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	PA 6010						
Manganese, Dissolved	4330 ug/L	5.0	0.12	1		03/30/10 19:54	7439-96-5	
8260 MSV	Analytical Method: E	PA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/22/10 14:08	67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/22/10 14:08	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/22/10 14:08	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/22/10 14:08	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/22/10 14:08	67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/22/10 14:08	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/22/10 14 [.] 08	75-34-3	
1,2-Dichloroethane	1.7 ug/L	1.0	0.36	1		03/22/10 14:08	107-06-2	
1,1-Dichloroethene	0.57J ug/L	1.0	0.57	1		03/22/10 14:08	75-35-4	
cis-1,2-Dichloroethene	7.9 ug/L	1.0	0.83	1		03/22/10 14:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/22/10 14:08	156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/22/10 14:08	75-09-2	
Tetrachloroethene	6.1 ug/L	1.0	0.45	1		03/22/10 14:08	127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/22/10 14:08	71-55-6	
,2-Trichloroethane	ND ug/L	1.0	0.42	1		03/22/10 14:08	79-00-5	
. richloroethene	13.4 ug/L	1.0	0.48	1		03/22/10 14:08	79-01-6	
Vinyl chloride	6.4 ug/L	1.0	0.18	1		03/22/10 14:08	75-01-4	
4-Bromofluorobenzene (S)	92 %-	70-130		1		03/22/10 14:08	460-00-4	
Dibromofluoromethane (S)	92 %-	70-130		1		03/22/10 14:08	1868-53-7	
Toluene-d8 (S)	96 %-	70-130		1		03/22/10 14 ⁻ 08	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: El	PA 300.0						
Sulfate	4.4 mg/L	4.0	2.0	1		04/01/10 01:27	14808-79-8	

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REPORT OF LABORATORY ANALYSIS





Project:

71243.61 MEDLEY FARMS

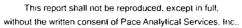
Pace Project No.: 4029585

Sample: FBLK 10101	Lab ID:	4029585009	Collected	1: 03/18/10	12:20	Received: 00	3/19/10 10:10 M	atrix: Water	
Parameters	Results	Units	POL.	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	0.12J u	g/L	5.0	0.12	1		03/30/10 20:06	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	5. 0J ug	g/L	20.0	5.0	1		03/22/10 10:38	67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/22/10 10:38	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/22/10 10:38	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/22/10 10:38	75-00-3	
Chloroform	ND u	g/L	5 0	1.3	1		03/22/10 10:38	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/22/10 10:38	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/22/10 10:38	75-34-3	
1.2-Dichloroethane	ND ug	g/L	1.0	0.36	1		03/22/10 10:38	107-06-2	
1,1-Dichloroethene	ND u		1.0	0.57	1		03/22/10 10:38	75-35-4	
cis-1.2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/22/10 10:38	156-59-2	
trans-1.2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/22/10 10:38	156-60-5	
Methylene Chloride	0.58J u	g/L	1.0	0.43	1		03/22/10 10:38	75-09-2	Z3
Tetrachloroethene	ND u	g/L	1.0	0.45	1		03/22/10 10:38	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/22/10 10:38	71-55-6	
,2-Trichloroethane	ND u		1.0	0.42	1		03/22/10 10:38	79-00-5	
richloroethene	ND u	g/L	1.0	0.48	1		03/22/10 10:38	79-01-6	
Vinyl chloride	ND u	g/L	1.0	0.18	1		03/22/10 10:38	75-01-4	
4-Bromofluorobenzene (S)	91 %	- o-	70-130		1		03/22/10 10:38	460-00-4	
Dibromofluoromethane (S)	93 %	, o-	70-130		1		03/22/10 10:38	1868-53-7	
Toluene-d8 (S)	97 %	, u-	70-130		1		03/22/10 10:38	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	800.0						
Sulfate	ND m	ng/L	4.0	2.0	1		04/01/10 01:39	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

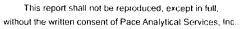
Pace Project No.: 4029585

Sample: RBLK 10101	Lab ID: 4	1029585010	Collecte	d: 03/18/10	13:50	Received: 00	3/19/10 10:10 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical M	lethod: EPA 60	010						
Manganese, Dissolved	2.6J ug/	/L	5.0	0.12	1		03/30/10 20:10	7439-96-5	
8260 MSV	Analytical M	lethod: EPA 82	260						
Acetone	ND ug	/L	20.0	5.0	1		03/22/10 11:01	67-64-1	
Benzene	ND ug	/L	1.0	0.41	1		03/22/10 11:01	71-43-2	
2-Butanone (MEK)	ND ug	/L	20.0	43	1		03/22/10 11:01	78-93-3	
Chloroethane	ND ug	/L	1.0	0.97	1		03/22/10 11:01	75-00-3	
Chloroform	ND ug	/L	5.0	1.3	1		03/22/10 11:01	67-66-3	
Chloromethane	ND ug	/L	1.0	0.24	1		03/22/10 11:01	74-87-3	
1.1-Dichloroethane	ND ug	/L	1.0	0.75	1		03/22/10 11:01	75-34-3	
1.2-Dichloroethane	ND ug	/L	1.0	0.36	1		03/22/10 11:01	107-06-2	
1,1-Dichloroethene	ND ug	/L	1.0	0.57	1		03/22/10 11:01	75-35-4	
cis-1.2-Dichloroethene	ND ug	/L	1.0	0.83	1		03/22/10 11:01	156-59-2	
trans-1,2-Dichloroethene	ND ug	/L	1.0	0.89	1		03/22/10 11:01	156-60-5	
Methylene Chloride	0.62J uga	/L	1.0	0.43	1		03/22/10 11:01	75-09-2	Z3
Tetrachloroethene	ND ug	/L	1.0	0.45	1		03/22/10 11:01	127-18-4	
1,1-Trichloroethane	ND ug	/L	1.0	0.90	1		03/22/10 11:01	71-55-6	
.2-Trichloroethane	ND ug	/L	10	0.42	1		03/22/10 11:01	79-00-5	
richloroethene	ND ug	/L	1.0	0.48	1		03/22/10 11:01	79-01-6	
Vinyl chloride	ND ug	/L	1.0	0.18	1		03/22/10 11:01	75-01-4	
4-Bromofluorobenzene (S)	92 %-		70-130		1		03/22/10 11:01	460-00-4	
Dibromofluoromethane (S)	90 %-		70-130		1		03/22/10 11:01	1868-53-7	
Toluene-d8 (S)	96 %-		70-130		1		03/22/10 11:01	2037-26-5	
300.0 IC Anions 28 Days	Analytical M	/lethod: EPA 30	0.00						
Sulfate	ND mg	_J /L	4.0	2.0	1		04/01/10 01:51	14808-79-8	

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REPORT OF LABORATORY ANALYSIS

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03/22/10 14:32 2037-26-5



ANALYTICAL RESULTS

Project:

Toluene-d8 (S)

71243.61 MEDLEY FARMS

97 %-

Pace Project No.: 4029585

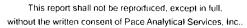
Sample: SWS-1	Lab ID: 4029585011		Collecte	d: 03/18/10	14:15	Received: 03	3/19/10 10:10 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical I	Method: EPA 8	3260						
Acetone	ND ug	J/L	20.0	5.0	1		03/22/10 14:32	67-64- 1	
Benzene	ND ug	 ₃/L	1.0	0.41	1		03/22/10 14.32	71-43-2	
2-Butanone (MEK)	ND ug	_J /L	20.0	4.3	1		03/22/10 14:32	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/22/10 14:32	75-00-3	
Chloroform	ND ug	3/L	5.0	1.3	1		03/22/10 14:32	67-66-3	
Chloromethane	ND ug	g/l_	1.0	0.24	1		03/22/10 14:32	74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		03/22/10 14:32	75-34-3	
1.2-Dichloroethane	ND uç	g/L	1.0	0.36	1		03/22/10 14:32	107-06-2	
1.1-Dichloroethene	ND ug	g/L	1.0	0.57	1		03/22/10 14:32	75-35-4	
cis-1.2-Dichloroethene	ND ug	9/L	1.0	0.83	1		03/22/10 14:32	156-59-2	
Irans-1,2-Dichloroethene	ND ug	g/L	1.0	0 89	1		03/22/10 14:32	156-60-5	
Methylene Chloride	ND ug	J/L	1.0	0.43	1		03/22/10 14:32	75-09-2	
Tetrachloroethene	ND ug	3/L	1.0	0 45	1		03/22/10 14:32	127-18-4	
1,1,1-Trichloroethane	ND uç	9/L	1.0	0 90	1		03/22/10 14:32	71-55-6	
1,1,2-Trichloroethane	ND ug	g/L	1.0	0.42	1		03/22/10 14:32	79-00-5	
Trichloroethene	ND ug	g/L	1.0	0.48	1		03/22/10 14:32	79-01-6	
'/inyl chloride	ND ug	g/L	1.0	0 18	1		03/22/10 14:32	75-01-4	
3romofluorobenzene (S)	92 %	-	70-130		1		03/22/10 14:32	460-00-4	
.oromofluoromethane (S)	92 %	-	70-130		1		03/22/10 14:32	1868-53-7	

70-130

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03/22/10 14:55 2037-26-5



ANALYTICAL RESULTS

Project:

Toluene-d8 (S)

71243.61 MEDLEY FARMS

95 %-

Pace Project No.: 4029585

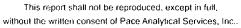
Sample: SWS-2	Lab ID: 402	29585012 Collected	d: 03/18/10	14:35	Received: 03	3/19/10 10:10 Ma	atrix: Water	
Parameters	Results	Units PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Me	thod: EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/22/10 14:55	67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/22/10 14:55	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/22/10 14:55	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/22/10 14:55	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/22/10 14:55	67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/22/10 14:55	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/22/10 14:55	75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/22/10 14:55	107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/22/10 14:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/22/10 14:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/22/10 14:55	156-60-5	
Methylene Chloride	0.45J ug/L	1.0	0.43	1		03/22/10 14:55	75-09-2	Z3
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/22/10 14:55	127-18-4	
1,1.1-Trichloroethane	ND ug/L	1.0	0.90	1		03/22/10 14:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L	1.0	0.42	1		03/22/10 14:55	79-00-5	
Trichloroethene	ND ug/L	1.0	0.48	1		03/22/10 14:55	79-01-6	
'finyl chloride	ND ug/L	1.0	0.18	1		03/22/10 14:55	75-01-4	
3romofluorobenzene (S)	90 %-	70-130		1		03/22/10 14:55	460-00-4	
.promofluoromethane (S)	92 %-	70-130		1		03/22/10 14:55	1868-53-7	

70-130

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03/22/10 15.19 1868-53-7

03/22/10 15:19 2037-26-5



ANALYTICAL RESULTS

Project:

71243.61 MEDLEY FARMS

91 %-

95 %-

Pace Project No.: 4029585

.promofluoromethane (S)

Toluene-d8 (S)

Sample: SWS-3 Lab ID: 4029585013 Collected: 03/18/10 15:50 Received: 03/19/10 10:10 Matrix: Water Units POL MDL DF Prepared CAS No. Parameters Results Analyzed Qual Analytical Method: EPA 8260 8260 MSV 20.0 Acetone ND ug/L 5.0 1 03/22/10 15:19 67-64-1 Benzene ND ug/L 1.0 0.41 1 03/22/10 15:19 71-43-2 2-Butanone (MEK) ND ug/L 20.0 4.3 1 03/22/10 15:19 78-93-3 0.97 03/22/10 15:19 75-00-3 Chloroethane ND ug/L 1.0 ND ug/L 5.0 1.3 03/22/10 15:19 67-66-3 Chloroform 1 0.24 03/22/10 15:19 74-87-3 ND ug/L 1.0 Chloromethane 1,1-Dichloroethane ND ug/L 1.0 0.75 1 03/22/10 15:19 75-34-3 1,2-Dichloroethane 1.0 0.36 03/22/10 15:19 107-06-2 ND ug/L 1 1.0 0.57 03/22/10 15:19 75-35-4 1.1-Dichloroethene ND ug/L 1 0.83 cis-1,2-Dichloroethene 1.0 03/22/10 15.19 156-59-2 ND ug/L 1 trans-1.2-Dichloroethene ND ug/L 1.0 0.89 1 03/22/10 15:19 156-60-5 0.49J ug/L 0.43 03/22/10 15:19 75-09-2 Z3 Methylene Chloride 1.0 1 Tetrachloroethene ND ug/L 1.0 0.45 03/22/10 15:19 127-18-4 1.1.1-Trichloroethane ND ug/L 1.0 0.90 03/22/10 15:19 71-55-6 1,1,2-Trichloroethane ND ug/L 1.0 0 42 1 03/22/10 15:19 79-00-5 Trichloroethene ND ug/L 1.0 0.48 1 03/22/10 15:19 79-01-6 03/22/10 15:19 75-01-4 'finyl chloride ND ug/L 1.0 0.18 1 70-130 03/22/10 15:19 460-00-4 3romofluorobenzene (S) 93 %-1

70-130

70-130

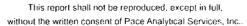
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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

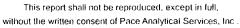
Pace Project No.: 4029585

Sample: TRIP BLANK	Lab ID: 4029585014		Collected: 03/18/10 00:00			Received: 03	3/19/10 10:10 Ma	Matrix: Water	
Parameters	Results	Units	PQL	MDL_	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND uç	g/L	20.0	5.0	1		03/22/10 10:14	67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/22/10 10:14	71-43-2	
2-Butanone (MEK)	ND uç	g/L	20.0	4.3	1		03/22/10 10:14	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/22/10 10:14	75-00-3	
Chloroform	ND uç		5.0	1.3	1		03/22/10 10:14	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/22/10 10:14	74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		03/22/10 10:14	75-34-3	
1,2-Dichloroethane	ND ug		1.0	0 36	1		03/22/10 10:14	107-06-2	
1,1-Dichloroethene	ND ug	g/L	1.0	0.57	1		03/22/10 10:14	75-35-4	
cis-1.2-Dichloroethene	ND ug	g/L	1.0	0.83	1		03/22/10 10:14	156-59-2	
trans-1,2-Dichloroethene	ND ug	g/L	1.0	0.89	1		03/22/10 10:14	156-60-5	
Methylene Chloride	0.49J ug		1.0	0.43	1		03/22/10 10:14	75-09-2	Z3
Tetrachloroethene	ND ug	g/L	1.0	0.45	1		03/22/10 10:14	127-18-4	
1,1,1-Trichloroethane	ND ug	g/L.	1.0	0.90	1		03/22/10 10:14	71-55-6	
1.1,2-Trichloroethane	ND ug	g/L	1.0	0.42	1		03/22/10 10:14	79-00-5	
Trichloroethene	ND ug	g/L	1.0	0.48	1		03/22/10 10:14	79-01-6	
`finyl chloride	ND ug		1.0	0.18	1		03/22/10 10.14	75-01-4	
Bromofluorobenzene (S)	95 %) -	70-130		1		03/22/10 10:14	460-00-4	
promofluoromethane (S)	90 %)-	70-130		1		03/22/10 10:14	1868-53-7	
Toluene-d8 (S)	98 %	y-	70-130		1		03/22/10 10:14	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436



QUALITY CONTROL DATA

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

ICP/3250

Analysis Method:

EPA 6010

QC Batch: QC Batch Method:

EPA 6010

Analysis Description:

ICP Metals, Trace, Dissolved

Associated Lab Samples:

4029585001, 4029585002, 4029585003, 4029585004

Matrix: Water

METHOD BLANK: 280692 Associated Lab Samples:

4029585001, 4029585002, 4029585003, 4029585004

Blank

Parameter

Result

Reporting Limit

Analyzed

Qualifiers

Manganese, Dissolved

ug/L

ND

03/30/10 17:20

LABORATORY CONTROL SAMPLE:

Parameter

280693

Units

Units

Spike

Conc.

LCS

Result

LCS % Rec % Rec Limits

Qualifiers

Manganese, Dissolved

ug/L

Units

ug/L

500

480

280695

96 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

280694

MSD

Conc.

MS Spike

Spike

MS MSD

MS % Rec

MSD % Rec % Rec Limits Max

RPD RPD Qual 20

Parameter anganese, Dissolved

4029745011 Result

Conc. 2020

500

500

Result Result 2460 2470

88

75-125

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

QUALITY CONTROL DATA

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

ICP/3251

Analysis Method:

EPA 6010

QC Batch: QC Batch Method:

EPA 6010

Associated Lab Samples:

 $4029585005,\,4029585006,\,4029585007,\,4029585008,\,4029585009,\,4029585010$

Analysis Description:

ICP Metals, Trace, Dissolved

METHOD BLANK: 280696

Matrix: Water

Associated Lab Samples:

4029585005, 4029585006, 4029585007, 4029585008, 4029585009, 4029585010

Blank

Reporting

Parameter

Result Units

Limit

Analyzed

Qualifiers

Manganese, Dissolved

ug/L

ND

5.0 03/30/10 19:26

LABORATORY CONTROL SAMPLE:

Parameter

280697

Units

Spike

LCS

LCS % Rec % Rec Limits

Qualifiers

Manganese, Dissolved

anganese. Dissolved

ug/L

Units

ug/L

Conc. 500

465

280699

93 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

280698

Result

MSD Spike

MS MSD

MS

MSD

% Rec Limits Max

RPD RPD Qual

Parameter

325

MS 4029585005 Result

Spike Conc. 500

Conc. 500

Result Result 782 781 % Rec 91

% Rec

75-125

20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

QC Batch:

MSV/7257

Analysis Method:

EPA 8260

QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples:

4029585001, 4029585002, 4029585003, 4029585004, 4029585005, 4029585006, 4029585007, 4029585008,

4029585009, 4029585010, 4029585011, 4029585012, 4029585013, 4029585014

METHOD BLANK: 277395

Matrix: Water

Associated Lab Samples:

 $4029585009,\,4029585010,\,4029585011,\,4029585012,\,4029585013,\,4029585014$

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/22/10 07:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/22/10 07:50	
1,1-Dichloroethane	ug/L	ND	1.0	03/22/10 07:50	
1,1-Dichloroethene	ug/L	ND	1.0	03/22/10 07:50	
1,2-Dichloroethane	ug/L	ND	1.0	03/22/10 07:50	
2-Butanone (MEK)	ug/L	ND	20.0	03/22/10 07:50	
Acetone	ug/L	ND	20.0	03/22/10 07:50	
Benzene	ug/L	ND	1.0	03/22/10 07:50	
Chloroethane	ug/L	ND	1.0	03/22/10 07:50	
Chloroform	ug/L	ND	5.0	03/22/10 07:50	
Chloromethane	ug/L	ND	1.0	03/22/10 07:50	
cis-1,2-Dichloroethene	ug/L	ПU	1.0	03/22/10 07:50	
ethylene Chloride	ug/L	ND	1.0	03/22/10 07:50	
atrachloroethene	ug/L	ND	1.0	03/22/10 07:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/22/10 07:50	
Trichloroethene	ug/L	ND	1.0	03/22/10 07:50	
Vinyl chloride	ug/L	ND	1.0	03/22/10 07:50	
4-Bromofluorobenzene (S)	%-	92	70-130	03/22/10 07:50	
Dibromofluoromethane (S)	%-	93	70-130	03/22/10 07:50	
Toluene-d8 (S)	%-	97	70-130	03/22/10 07:50	

LABORATORY CONTROL SAM	PLE & LCSD: 277396		27	77397						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1.1-Trichloroethane	ug/L	50	49.7	49.6	99	99	70-132	.2	20	-
1,1,2-Trichloroethane	ug/L	50	46.6	45.7	93	91	70-130	2	20	
1,1-Dichloroethane	ug/L	50	47.7	47.3	95	95	70-130	1	20	
1,1-Dichloroethene	ug/L	50	54.1	53.1	108	106	70-130	2	20	
1,2-Dichloroethane	ug/L	50	45.5	44.8	91	90	70-134	2	20	
2-Butanone (MEK)	ug/L	50	47.5	42.9	95	86	36-181	10	35	
Acetone	ug/L	50	68.0	57 9	136	116	10-200	16	36	
Benzene	ug/L	50	49.8	48.5	100	97	70-131	3	20	
Chloroethane	ug/L	50	52.6	52.2	105	104	70-136	.7	20	
Chloroform	ug/L	50	47.1	47.2	94	94	70-130	.1	20	
Chloromethane	ug/L	50	46.0	42.6	92	85	54-148	8	20	
cis-1,2-Dichloroethene	ug/L	50	50.4	49.3	101	99	70-130	2	20	
Methylene Chloride	ug/L	50	52.6	51.6	105	103	66-130	2	20	
Tetrachloroethene	ug/L	50	53.4	53.0	107	106	75-130	.7	20	
trans-1,2-Dichloroethene	ug/L	50	52.2	51.8	104	104	70-130	.7	20	
Trichloroethene	ug/L	50	52.6	51.5	105	103	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029585

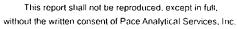
LABORATORY CONTROL SAME	PLE & LCSD: 277396		27	77397						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
Vinyl chloride	ug/L	50	44.9	43.4	90	87	63-141	3	20	
4-Bromofluorobenzene (S)	%-				94	93	70-130			
Dibromofluoromethane (S)	%-				93	93	70-130			
Toluene-d8 (S)	%-				98	97	70-130			

MATRIX SPIKE & MATRIX SP		277435										
			MS	MSD								
	41	029580011	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Quat
1.1,1-Trichloroethane	ug/L	<0.90	50	50	48.9	48.5	98	97	70-137	.9	20	
1,1,2-Trichloroethane	ug/L	< 0.42	50	50	45.2	45.7	90	91	70-130	1	20	
1,1-Dichloroethane	ug/L	< 0.75	50	50	47.0	46.7	94	93	70-130	.7	20	
1,1-Dichloroethene	ug/L	< 0.57	50	50	51.3	50.6	103	101	70-130	1	20	
1,2-Dichloroethane	ug/L	< 0.36	50	50	44.9	45.1	90	90	69-134	.3	20	
2-Butanone (MEK)	ug/L	<4.3	50	50	37.2	35.0	74	70	36-181	6	35	
Acetone	ug/L	<5.0	50	50	37 6	39.9	75	80	10-200	6	36	
Benzene	ug/L	< 0.41	50	50	49.0	48.8	98	98	69-131	.3	20	
`hloroethane	ug/L	< 0.97	50	50	51.2	49.5	102	99	66-136	3	20	
nloroform	ug/L	<1.3	50	50	46.6	46.7	93	93	70-130	.3	20	
Chloromethane	ug/L	< 0.24	50	50	41.7	40.7	83	81	54-148	2	20	
cis-1,2-Dichloroethene	ug/L	< 0.83	50	50	49.4	49.6	99	99	70-130	.4	20	
Methylene Chloride	ug/L	0.50J	50	50	51.6	51.3	102	102	64-130	.7	20	
Tetrachloroethene	ug/L	< 0.45	50	50	52.1	52.5	104	105	70-130	.8	20	
trans-1,2-Dichloroethene	ug/L	< 0.89	50	50	50.3	49.9	101	100	70-130	.9	20	
Trichloroethene	ug/L	< 0.48	50	50	51.0	50.8	102	102	70-130	.4	20	
Vinyl chloride	ug/L	< 0.18	50	50	41.5	41.5	83	83	59-141	.1	20	
4-Bromofluorobenzene (S)	%-						94	92	70-130			
Dibromofluoromethane (S)	%-						94	93	70-130			
Toluene-d8 (S)	%-						96	97	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

281189

QC Batch:

WETA/6055

Analysis Method:

EPA 300.0

QC Batch Method:

EPA 300.0

Analysis Description:

ND

Matrix: Water

300.0 IC Anions

Associated Lab Samples:

METHOD BLANK:

4029585009, 4029585010

Associated Lab Samples:

4029585001, 4029585002, 4029585003, 4029585004, 4029585005, 4029585006, 4029585007, 4029585008,

4029585009, 4029585010

mg/L

Blank

Reporting

Analyzed

Parameter

Units

Units

4029585001

Result

3.5J

Result

Limit

4.0 03/31/10 22:49

Qualifiers

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

281190

Spike

LCS

LCS

94

% Rec

Sulfate

Sulfate

mg/L

Units

Units

Conc. 20

MS

Spike

Conc.

MS

20

20

18.8

% Rec

Limits 90-110

87

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

281191

Spike

Conc.

281192 MSD

20

20

Result

MS MSD

Result

21.1

MS % Rec

MSD % Rec

88

104

% Rec Limits

Max RPD RPD Qual

20 M0

Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Sulfate

mg/L

mg/L

MSD

281194

Result

21.0

70.9

MS

% Rec

105

MSD

90-110

90-110

.6

Max

Sulfate

4029690001 Spike Result Conc

Spike Conc.

MS Result

MSD Result 70.6

% Rec

% Rec Limits

RPD RPD

.3 20

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

QUALIFIERS

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029585

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

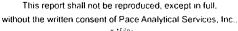
NALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

71243.61 MEDLEY FARMS

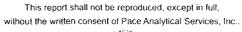
Pace Project No.:

4029585

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4029585001	DP-3-2	EPA 6010	ICP/3250		
4029585002	DP-3-1	EPA 6010	ICP/3250		
4029585003	DP-2-1	EPA 6010	ICP/3250		
4029585004	BW-105	EPA 6010	ICP/3250		
4029585005	SW-4	EPA 6010	ICP/3251		
4029585006	BW-2	EPA 6010	ICP/3251		
4029585007	A-1	EPA 6010	ICP/3251		
4029585008	A-2	EPA 6010	ICP/3251		
4029585009	FBLK 10101	EPA 6010	ICP/3251		
4029585010	RBLK 10101	EPA 6010	ICP/3251		
4029585001	DP-3-2	EPA 8260	MSV/7257		
4029585002	DP-3-1	EPA 8260	MSV/7257		
4029585003	DP-2-1	EPA 8260	MSV/7257		
4029585004	BW-105	EPA 8260	MSV/7257		
4029585005	SW-4	EPA 8260	MSV/7257		
4029585006	BW-2	EPA 8260	MSV/7257		
4029585007	A-1	EPA 8260	MSV/7257		
4029585008	A-2	EPA 8260	MSV/7257		
1029585009	FBLK 10101	EPA 8260	MSV/7257		
29585010	RBLK 10101	EPA 8260	MSV/7257		
J29585011	SWS-1	EPA 8260	MSV/7257		
4029585012	SWS-2	EPA 8260	MSV/7257		
4029585013	SWS-3	EPA 8260	MSV/7257		
4029585014	TRIP BLANK	EPA 8260	MSV/7257		
4029585001	DP-3-2	EPA 300.0	WETA/6055		
4029585002	DP-3-1	EPA 300.0	WETA/6055		
4029585003	DP-2-1	EPA 300.0	WETA/6055		
4029585004	BW-105	EPA 300.0	WETA/6055		
4029585005	SW-4	EPA 300.0	WETA/6055		
4029585006	BW-2	EPA 300.0	WETA/6055		
4029585007	A-1	EPA 300.0	WETA/6055		
4029585008	A-2	EPA 300.0	WETA/6055		
4029585009	FBLK 10101	EPA 300.0	WETA/6055		
4029585010	RBLK 10101	EPA 300.0	WETA/6055		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSADY RECORD 402.9585

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535	Au	`			Fil	. 1.0	<u> </u>	/N/	7	W/	//	$\overline{//}$	\overline{Z}
Phone 864/281-0030 • Fax 864/281-0288				F	reserv	ed (Cod	de)	F/2	12		II	$\mathcal{I}\mathcal{I}$	
Project No. 71243.61 Project/Client: Medley FARMS. Project Manager/Contact Person: G, Webb, / L, ClARA	Total Number of Containers	×		145°5	zedy 7	July S	Mag	* 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				PRESER A — NO B — HN C — H ₂ D — No	4O₃ ,\$O₄
Lab No. Yr Date Time Sample Station ID	Total N of Con		PC,	\(\text{t}\)	255				/	Comm		E — HC F — ME G —	THANOL
001 3/15 1320 1223-2	5	66	3	1	1					9-251	DMI MED	3-40	m18
OUT 3/15 1820 DP-3-1	5		3	l)			<u> </u>					
003 3/16 1140 DP 2-1	5		ろ	i	l								
004 (1445 BW-105	5		3	Ţ	1								
005) 1500 Sw. 4	5		3	1	1					\		}	
onu 3/16 1620 Bw-2	15	610	3	1	_							,	1
007 3/17 1520 17-1	5	Gw	3	1]								
008 3/18 1300 A-2	5	600	3	1	- [
000 3/18 1220 FBLK 10101	5	DIE,	3	1	J								
010 3/18 1350 RBLK 10101	5	DI	3	ر	J		1				V		V
SPECIAL INSTRUCTIONS													
87/2 604	18	557											
SAMPLER Relinquished by (Signature) Date/Time Received by (Signature) 3/18/10 / 700 FED EX	Dat クタク 1フ:	re/Time	V	VITH S	ASSOC AMPLE mable			Around (t Due _		•	Vormal	Rush	_
Relinquished by (Signature) Date/Time Received by (Signature)	Dat Lall	e/Time /6/D		Corr	osive					(For La	b Use Only	<i></i> /)	
FLJEY BIOID (DID W2 Relinquished by (Signature) Date/Time Received by (Signature)		e/Time		Highl Othe	y Toxic r (list)	·	1	eipt Temp o Blank り	Υ	79	,	Receipt ph	ils) NL
Custody Seal: Present/Absent Intact/Not Intact Seal #s													





4029545 770,_

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535					Fil	ered (Ye		//_			
Phone 864/281-0030 • Fax 864/281-0288	.,			Р	reserv	ed (Cod	le)	5/	Z_{-}		7/
Project No. 7/243,61 Project Manager/Contact Person: 5. WEBB / L. CLARA	ımber siners	×		72.62 (edy.	3/2/					PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NoOH
Lab No. Yr./O Date Time Sample Station ID	Total Number of Containers	MATRIX	PC,		¥/ /	//	//			Comments:	E — HCI F — METHANOL G —
011 3/18 1415 SWE-1	3	SW	3		_					3.40m1B	
018 3/18 1435 5W5-Z	3	Sw	3								
013 3/18 1550 5W5-3	3	5ω	3							V	
014 Trip Blank 10162	2										
										·	
		•									
SPECIAL INSTRUCTIONS								-		<u></u>	
8712 6041	855	7								·	
SAMPLER Relinquished by (Signature) Date/Time Received by (Signature) Augustus FED EX	Date 3/18/	e/Time 17.00	\	ARDS A WITH:S.	AMPLE			Arcund (rt Due _		•	Rush
Relinquished by (Signature) Plut Mala 1010 Received by (Signature) Relinquished by (Signature) Date/Time Received by (Signature)	0 /1	e/Time), 0 e/Time		Corro	y Toxic		Rece Tem	eipt Temp p Blank 3° ((For Lob Use Only) Re	eceipt pH Vet/Metals)
Custody Seal: Present/Absent Intact/Not Intact Seal #s			•						J		

Pace Analytical

Sample Condition Upon Receipt

Client Name	ə: 1	PMT	=	Pr	oject#	4029585
Courier: Fed Ex T UPS T USPS T					-	1000
Tracking #:	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	idi ji raci	e 0or		
Custody Seal on Cooler/Box Present: ye	s X no	Seals i	intact:	yes ┌ no		Optional
Custody Seal on Samples Present:		Seals i	intact: 🦵 y	yes 🦵 no	[Proj. Due Date:
Packing Material: Bubble Wrap Bu	•		e Other		Į.	ProjName:
Thermometer Used	Type of Ice:	1 \	•		Samples on	ice, cooling process has begun
Cooler Temperature 50	Biological T	issue i		yes no		
Temp Blank Present: yes no	washt Dieta		,	110	Person example Date:	mining contents: 거 기계
Temp should be above freezing to 6°C for all sample ex Biota Samples should be received ≤ 0 °C.	ссері Біоіа.		Comments:	<u> </u>	Initials:	
Chain of Custody Present:	⊠Yes □No	□n/a	1.			
Chain of Custody Filled Out:	YQYes □No	□n/a	2.			<u> </u>
Chain of Custody Relinquished:	⊠Yes □No	□N/A	3.			
Sampler Name & Signature on COC:	□Yes □No	□n/a	4			
Samples Arrived within Hold Time:	⊠Ÿes □No	□n/A	5.	· · · · · · · · · · · · · · · · · · ·		
Short Hold Time Analysis (<72hr):	□Yes No	□n/a	6.			
Rush Turn Around Time Requested:	□Yes \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	□n/A	7.			
Sufficient Volume:	QYes □No	□n/a	8.			
Correct Containers Used:	YSJYes □No	□N/A	9.			
'ace Containers Used:	YQYes □No	□n/a			_	
Containers Intact:	Yes [No	□n/a	10.			
Filtered volume received for Dissolved tests	Yes 🗆 No					
Sample Labels match COC:	□Yes □No	□N/A	12013	labello	1 as <0	11. All times/DMIS
-Includes date/time/ID/Analysis Matrix:	<u> </u>		match	WCDC.	NO 7	11910
All containers needing preservation have been checked.	Dyes ONO	□n/a	13.	· - · · - · · · · ·		T
All containers needing preservation are found to be in	Dyes ONo	□N/A				
compliance with EPA recommendation.	`	L	Initial when	w.	Lot # of adde	ed
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No		completed	ME .	preservative	
Samples checked for dechlorination:	□Yes □No	□n/a	14			
Headspace in VOA Vials (>6mm):	□Yes □No	□N/A	15.			
Trip Blank Present:	□Yes □No	□n/A	16.			
Trip Blank Custody Seals Present	□Yes □No	□n/a				
Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution:						
Person Contacted:		Date/T	ime:		Field Data F	Required? Y / N
Comments/ Resolution:						
1/>	1 /					<u> </u>
oject Manager Review:	To In	26			Date	3/19/10
	717	COOV	of this form will I	he sent to the Nr		HNR Certification Office (i.e. out of hold,
incorrect preservative, out of temp, incorrect containers)	7	1				and the second s



Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 1 of 13 Lab Proj #: P1003239 Report Date: 04/05/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Laboratory Results

Total pages in data package: ________

Lab Sample #	Client Sample ID
P1003239-01	DP3-2
P1003239-02	DP3-1
P1003239-03	DP2-1
P1003239-04	BW-105
P1003239-05	SW-4
P1003239-06	BW-2
`93239-07	A -1
13239-08	A-2
1003239-09	FBLK 10101
P1003239-10	PRIK 10101

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By:	Dibbie Hallo	(HH)	Date:	4.5.10	
Project Manager:	Debbie Hallo		_		

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.

Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

TEMP-OK; COE - SIGNED; NARR-NA; HT-OK MBLK- CLEAN

BLK- 10101- CLEAN FBLK-10101 - CLEAN

LCS - RECS OK

MS/MSD - BW-105 USED FOR MS/MSD; RECS AND RPDS OK

Client Name: RMT, Inc.

Contact: Steve Webb

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 1 of 13

Lab Proj #: P1003239

Report Date: 04/05/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Laboratory Results

Total pages in data package:

Lab Sample # Client Sample ID P1003239-01 DP3-2 P1003239-02 DP3-1 P1003239-03 DP2-1 P1003239-04 BW-105 P1003239-05 SW-4 P1003239-06 BW-2 P1003239-07 A-1 P1003239-08 A-2 FBLK 10101 P1003239-09

P1003239-10

RBLK 10101

NO FLAGS 924 4/5/10

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

<u>Project Manager:</u>

Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

> As a valued client we would appreciate your comments on our service. Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433 website www.microsceps.com email info@microsecps.com

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 2 of 13 Lab Proj #: P1003239 Report Date: 04/05/10 Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Case Narrative:

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 3 of 13 Lab Proj #: P1003239 Report Date: 04/05/10 Client Proj Name: Medley Farm

Sample Description DP3-2	<u>Matrix</u> Water	Lab Sample # <u>\$</u> P1003239-01		Sampled Date/Time 15 Mar. 10 13:20	<u>Received</u> 19 Mar. 10 13:02		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles	<u> </u>						
N Acetic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	Ų	< 25.0	25	mg/L	AM21G	4/2/10	td
N Propionic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

Address: Patewood Plaza One

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Page: Page 4 of 13 Lab Proj #: P1003239 Report Date: 04/05/10 Client Proj Name: Medley Farm

Sample Description DP3-1	<u>Matrix</u> Water	Lab Sample # P1003239-02			Sampled Date/Time 15 Mar. 10 18:20	<u>Received</u> 19 Mar. 10 13:02	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles	· - · · ·					<u>-</u>	
N Acetic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	U	< 25.0	25	mg/l.	AM21G	4/2/10	td
N Propionic Acid	IJ	< 1.0	1	mg/L	AM21G	4/2/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

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Greenville, SC 29615-3535

Page: Page 5 of 13
Lab Proj #: P1003239
Report Date: 04/05/10
Client Proj Name: Medley Farm
Client Proj #: 00-71243.61 T1

Sample Description DP2-1	<u>Matrix</u> Water	Lab Sample # <u>§</u> P1003239-03		Sampled Date/Time 16 Mar. 10 11:40	<u>Received</u> 19 Mar. 10 13:02		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	U	< 25.0	25	mg/L	AM21G	4/2/10	td
N Propionic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

Address: Patewood Plaza One

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Greenville, SC 29615-3535

Page: Page 6 of 13
Lab Proj #: P1003239
Report Date: 04/05/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Sample Description BW-105	Matrix Lab Sample # Water P1003239-04		Sampled Date/Time 16 Mar. 10 14:45	<u>Received</u> 19 Mar. 10 13:02			
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles			-				
N Acetic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	U	< 25.0	25	mg/l_	AM21G	4/2/10	td
N Propionic Acid	U	< 1.0	1	ma/L	AM21G	4/2/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

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Page: Page 7 of 13 Lab Proj #: P1003239 Report Date: 04/05/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Sample Description SW-4		<u>Matrix</u> Water		ab Sample 1003239-0		Sampled Date/Time 16 Mar. 10 15:20	<u>Receiv</u> 19 Mar. 10	
Analyte(s)	1	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles				_				
N Acetic Acid		U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid		U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid		U	< 25.0	25	mg/L	AM21G	4/2/10	td
N Propionic Acid		U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Pyruvic Acid		U	< 10.0	10	mg/L	AM21G	4/2/10	td

Address: Patewood Plaza One

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Page: Page 8 of 13 Lab Proj #: P1003239 Report Date: 04/05/10 Client Proj Name: Medley Farm

Sample Description BW-2	<u>Matrix</u> Water		b Sample 003239-0		Sampled Date/Time 16 Mar. 10 16:20	Receive 19 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	U	< 25.0	25	mg/L	AM21G	4/2/10	td
N Propionic Acid		1.3	1.0	mg/L	AM21G	4/2/10	tď
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

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Greenville, SC 29615-3535

Page: Page 9 of 13 Lab Proj #: P1003239

Report Date: 04/05/10 Client Proj Name: Medley Farm

Sample Description A-1	<u>Matrix</u> Water		b Sample 003239-0		Sampled Date/Time 17 Mar. 10 15:20	Receive 19 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid		4.5	1.0	mg/L	AM21G	4/2/10	tď
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	U	< 25.0	25	mg/L	AM21G	4/2/10	td
N Propionic Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

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Page: Page 10 of 13 Lab Proj #: P1003239 Report Date: 04/05/10

Client Proj Name: Medley Farm

Sample Description A-2	<u>Matrix</u> Water		b Sample 003239-0		Sampled Date/Time 18 Mar. 10 13:00	Receive 19 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles		_					
N Acetic Acid	U	< 1 .0	1	mg/L	AM21G	4/2/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/2/10	td
N Lactic Acid	U	< 25.0	25	mg/L	AM21G	4/2/10	td
N Propionic Acid	j	0.4	1.0	mg/L	AM21G	4/2/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/2/10	td

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Page: Page 11 of 13
Lab Proj #: P1003239
Report Date: 04/05/10
Client Proj Name: Medley Farm

Sample Description FBLK 10101	<u>Matrix</u> Water		b Sample 1003239-0		Sampled Date/Time 18 Mar. 10 12:20	<u>Receive</u> 19 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1	mg/L	AM21G	4/3/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/3/10	td
N Lactic Acid	U	< 25.0	25	mg/L	AM21G	4/3/10	td
N Propionic Acid	U	< 1.0	1	mg/L	AM21G	4/3/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/3/10	td

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Page: Page 12 of 13 Lab Proj #: P1003239 Report Date: 04/05/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Sample Description RBLK 10101	<u>Matrix</u> Water		b Sample 003239-1		Sampled Date/Time 18 Mar. 10 13:50	Receiv 19 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1	mg/L	AM21G	. 4/3/10	td
N Butyric Acid	U	< 1.0	1	mg/L	AM21G	4/3/10	td
N Lactic Acid	U	< 25.0	25	mg/L	AM21G	4/3/10	td
N Propionic Acid	U	< 1.0	1	mg/L	AM21G	4/3/10	td
N Pyruvic Acid	U	< 10.0	10	mg/L	AM21G	4/3/10	td

Address: Patewood Plaza One

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Page: Page 13 of 13
Lab Proj #: P1003239
Report Date: 04/05/10
Client Proj Name: Medley Farm
Client Proj #: 00-71243.61 T1

Prep Method: Analysis of Volatile Fatty Acids in WaterAnalysis Method: Analysis of Volatile Fatty Acids in Water

M100403001-MB

	Result	TrueSpikeConc.	RDL %Recovery	Ctl Limits		
Acetic Acid	< 1.0 mg	/L	1.0	- NA		
Propionic Acid	< 1.0 mg	/L	1.0	- NA		
Butyric Acid	< 1.0 mg	/L	1.0	- NA		
Lactic Acid	< 25.0 mg	/L	25.0	- NA		
Pyruvíc Acid	< 10.0 mg	/L	10.0	- NA		
M100403001-LCS						
	Result	TrueSpikeConc.	%Recovery	Ctl Limits		
etic Acid	120.0 mg	/L 100.00	120.00	70 - 130		
. ropionic Acid	110.0 mg	/L 100.00	110.00	70 - 130		
Butyric Acid	100.0 mg	/L 100.00	100.00	70 - 130		
Lactic Acid	96.0 mg	/L 100.00	96.00	70 - 130		
Pyruvic Acid	92.0 mg	100.00	92.00	70 - 130		
P1003239-04A-MS						
	Result	TrueSpikeConc.	%Recovery	Ctl Limits		
Acetic Acid	100.0 mg	/L 100.00	100.00	70 - 130		
Propionic Acid	100.0 mg	/L · 100.00	100.00	70 - 130		
Butyric Acid	91.0 mg	/L 100.00	91.00	70 - 130		
Lactic Acid	99.0 mg	/L 100.00	99.00	70 - 130		
Pyruvic Acid	100.0 mg	/L 100.00	100.00	70 - 130		
P1003239-04A-MSD						
	Result	TrueSpikeConc.	%Recovery	Ctl Limits	<u>RPD</u>	RPD Ctl Limits
Acetic Acid	100.0 mg	/L 100.00	100.00	70 - 130	0.00	0 - 20
Propionic Acid	100.0 mg		100,00	70 - 130	0.00	0 - 20
Butyric Acid	93.0 mg	/L 100.00	93.00	70 - 130	2.17	0 - 20
Lactic Acid	110.0 mg	/L 100.00	110.00	70 - 130	10.53	0 - 20
Pyruvic Acid	98.0 mg	/L 100.00	98.00	70 - 130	2.02	0 - 20





CHAIN OF CUSTODY RECORD \$1003239

77071

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535 Phone 864/281-0030 • Fax 864/281-0288					Itered (Ye				///	
Project No. 7/243, [a] Project/Client: Medicy FARMS. Project Manager/Contact Person: 5. WeBB / L. Clarek.	umber ainers	×	Prodys			27				PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — N ₀ OH
Lab No. Yr. 10 Date Time Sample Station ID	Total Number of Containers	MATRIX	And!	holl			//	Comm	ents:	E — HCI F — METHANOL G —
: 3/15 1720 DP3-2	2	رياي	2							······································
Z 3/15 1820 DP3-1		<u> </u>								
3/16 1140 DPZ-1			//_							
V 3/16 1445 BW-105										
5 3/16 1520 SW-4										
6 3/16 1620 BW-Z				_						
7 3/17 1520 A-1	(}							
8 3/18 1300 A-Z	2	600	2							
C1 3/18 1220 FBLK 10101	2	DI	2							
10 3/18 1350 RIBLK 10101	2	DI	Z							
SPECIAL INSTRUCTIONS	·		' ''		<u>'</u>			<u> </u>		
8712 6041	854	14								
SAMPLER Relinquished by (Signature) Date/Time Received by (Signature) Relinquished by (Signature) Date/Time Received by (Signature)	Dat 3/1	e/Time 18//D 1700 te/Time		S ASSO H SAMP ommabl	LES		ound (circ	le one) N		Rush
Received by (Signature)	/ Z	1,9/10		orrosive				(For La	b Use Only)	
Relinquished by (Signature) Date/Time Received by (Signature)		/ ¹ /ুহত্ত te/Time		ghly Toxi			t Temp: lank Y	N		eceipt pH Vet/Metals)
Custody Seal: Present/Absent Intact/Not Intact Seal #s	-]				

Cooler Receipt Form

`lient:RMT, Inc.	Client Code:	RMTSC	LabProject #:	P1003239
Cooler ID: 1				
A. Preliminary Examination Phase:	Date cooler opened:	3/19/2010		
	Cooler opened by:	dp		
1. Was airbill Attached? N/A	Airbill #:		Carrier Name: F	FedEx
2. Custody Seals? N/A	How many? 0	Location:	S	Seal Name:
3. Seals intact? Yes				
4. Screened for radiation? N/A				
5. COC Attached? Yes	Properly Complete	d? Yes	Signed by er	nployee? Yes
6. Project Identification from custod	y paper: Medley Farm			
7. Preservative: Yes	Temperature:	4		
Comments:				
B. Log-In Phase: Samples Log-in Da	1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (og-in By: dp	E Spire e dell'Annagen annuel e St. del All IIII del annuel e L'Annae	maj (n. y.) kar - 1 - majori pir artikoji - najorila pokonikoji in Bauguppa jiem ilijori ani (n.). (a) i d
1. Packing Type: Other				
Were samples in separate bags?	N/A			
Were containers intact?	Yes	Labels agree wit	th COC?	'es
4. Number of bottles received:	20	Number of samp	oles received:	10
5. Correct containers used?	Yes	Correct preserva	atives added? N	I/A
6. Sufficient sample volume?	Yes			
7. Bubbles in VOA samples?	N/A			
8. Was Project manager called and s	tatus discussed?	N/A		
Comments:				

Have designate person initial here to acknowledge receipt of cooler:

Date: 3/19/10





April 09, 2010

Mark Bailey RMT Greenville 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4029910

Dear Mark Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

Kasa Ken

kang.khang@pacelabs.com Project Manager

Enclosures



TEMP-ON; COC- SIGNED; HT-OK; NARR TOK

SURR - RECS OK

MBLKS - CLEAN

TBLK-10103 - CLEAN

LCS/LCSO - RECS +RPDS OK

April 09, 2010

MS/MSD - Mn, DISS - 2 MS/MSD PAIRS. ONE PAIR WAS BATCH

QC-RES +RPD OK, SECOND PAIR USED SW-101 FOR MS/MSD-RECS a-RPD

Mark Bailey RMT Greenville 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

- VOCS - SW-101 USED FOR MS/MSD - RECE & RAPS

OK

-504 - TWO MS/MSD PATRE. SECOND PAIR HAS HI MS REC BUT IS BATCH QC. NO FLAGS.

FIRST MS/MSD PAIR USED BW-3 - RECS+ RPDS OK.

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4029910

FIELD DUP -- DU-10102 IS A FIELD DUPLICATE OF A-5.

Dear Mark Bailey: Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2010. The RPDs results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the FOR TWO

report.

If you have any questions concerning this report, please feel free to contact me.

VOCS WHICH HAD RPDS >10% BUT

ABSOLUTE DIFFERENCES

Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

<0.5 Mg/L. No FLAGES

Sincerely,

Kysh KC

Kang Khang

kang.khang@pacelabs.com Project Manager

NO FLAGS \ 4/12/10

Enclosures



Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4

4029910

Green Bay Certification IDs

California Certification #: 09268CA Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 11887 New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 1241 Bellevue Street Green Bay, WI 54302







SAMPLE SUMMARY

Project:

71243.61 MEDLEY FARMS

Pace Project No: 4029910

Sample ID	Matrix	Date Collected	Date Received
3W-4	Water	03/19/10 10:35	03/26/10 10:10
BW-3	Water	03/19/10 12:40	03/26/10 10:10
N-3	Water	03/22/10 14:30	03/26/10 10:10
SW-201	Water	03/23/10 12:35	03/26/10 10:10
N-4	Water	03/23/10 13:15	03/26/10 10:10
SW-106	Water	03/23/10 15:40	03/26/10 10:10
3W-106	Water	03/23/10 16:00	03/26/10 10:10
SW-101	Waler	03/24/10 10:30	03/26/10 10:10
3W-201	Water	03/24/10 13:55	03/26/10 10:10
A-5	Water	03/24/10 16:00	03/26/10 10:10
SW-202	Water	03/25/10 13:40	03/26/10 10:10
\ -6	Water	03/25/10 15:10	03/26/10 10:10
OU-10102	Water		03/26/10 10:10
BLK-10103	Water	03/19/10 00:00	03/26/10 10:10
	BW-4 BW-3 A-3 BW-201 A-4 BW-106 BW-106 BW-101 BW-201 A-5 BW-202 A-6 DU-10102 FBLK-10103	## 3 Water ## 3 Water ## 3 Water ## 4-3 Water ## 4-4 Water ## 5 W-106 Water ## 5 W-106 Water ## 5 W-101 Water ## 5 W-201 Water ## 5 W-201 Water ## 5 W-202 Water ## 5 W-202 Water ## 5 Wate	SW-3 Water 03/19/10 12:40 A-3 Water 03/22/10 14:30 SW-201 Water 03/23/10 12:35 A-4 Water 03/23/10 13:15 SW-106 Water 03/23/10 15:40 SW-101 Water 03/23/10 16:00 SW-201 Water 03/24/10 10:30 SW-201 Water 03/24/10 13:55 A-5 Water 03/24/10 13:40 SW-202 Water 03/25/10 13:40 A-6 Water 03/25/10 15:10 DU-10102 Water







SAMPLE ANALYTE COUNT

Project:

4029910013

DU-10102

71243.61 MEDLEY FARMS

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4029910001	BW-4	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910002	BW-3	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910003	A-3	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910004	SW-201	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910005	A-4	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
)29910006	SW-106	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910007	BW-106	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910008	SW-101	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910009	BW-201	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910010	A-5	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910011	SW-202	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
029910012	A-6	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G

REPORT OF LABORATORY ANALYSIS

EPA 300.0

EPA 6010

DDY

DLB

Page 4 of 29

PASI-G

PASI-G

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(920)469-2436



SAMPLE ANALYTE COUNT

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4029910014	TBLK-10103	EPA 8260	SMT	20	PASI-G





Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

Method:

EPA 6010

Description: 6010 MET ICP, Dissolved Client:

RMT - GREENVILLE

Date:

April 09, 2010

General Information:

13 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

Haboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

Method:

EPA 8260

Description: 8260 MSV

Client:

RMT - GREENVILLE

Date:

April 09, 2010

General Information:

14 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

`urrogates:

surrogates were within QC limits with any exceptions noted below.

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/7352

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4029910008

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 280856)
 - Styrene
- MSD (Lab ID: 280857)
 - Styrene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

4029910 Pace Project No.:

Method:

EPA 300.0

Description: 300.0 IC Anions 28 Days **RMT - GREENVILLE** Client:

Date:

April 09, 2010

General Information:

13 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

I laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/6101

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4029910002.4030176001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- · MS (Lab ID: 283766)
 - Sulfate

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS



Project:

71243.61 MEDLEY FARMS

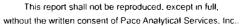
Pace Project No.: 4029910

ite: 04/09/2010 03:59 PM

Sample: BW-4	Lab ID: 402991	10001 Collecte	Collected: 03/19/10 10:35			3/26/10 10:10 N	Matrix: Water	
Parameters	Results Unit	s PQL	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method	: EPA 6010						
Manganese, Dissolved	0.72J ug/L	5.0	0.12	1		03/31/10 06:55	7439-96-5	
8260 MSV	Analytical Method	: EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/31/10 10:39	9 67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/31/10 10:39	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/31/10 10:39	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/31/10 10:39	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/31/10 10:39	9 67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/31/10 10:39	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/31/10 10:39	75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/31/10 10:39	0 107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/31/10 10:39	75 - 35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/31/10 10:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/31/10 10:39	9 156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/31/10 10:39	75-09-2	
Tetrachloroethene	ND ug/L	10	0.45	1		03/31/10 10:39	9 127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/31/10 10:39	71-55-6	
,2-Trichloroethane	ND ug/L	1.0	0.42	1		03/31/10 10:39	9 79-00-5	
richloroethene	ND ug/L	1.0	0.48	1		03/31/10 10:39	9 79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		03/31/10 10:39	75-01-4	
4-Bromofluorobenzene (S)	80 %-	70-130		1		03/31/10 10:39	9 460-00-4	
Dibromofluoromethane (S)	84 %-	70-130		1		03/31/10 10:39	9 1868-53-7	
Toluene-d8 (S)	85 %-	70-130		1		03/31/10 10:39	9 2037-26-5	
300.0 IC Anions 28 Days	Analytical Method	EPA 300.0						
Sulfate	8.3 mg/L	4.0	2.0	1		04/07/10 23:43	7 14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

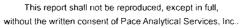
Pace Project No.: 4029910

Sample: BW-3	Lab ID: 4029910002		Collected: 03/19/10 12:40		Received: 03/26/10 10:10		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	1.0J ug/L		5.0	0.12	1		03/31/10 07:00	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND u	g/L	20.0	5.0	1		03/31/10 11:02	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/31/10 11:02	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 11:02	? 78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/31/10 11:02	? 75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1		03/31/10 11:02	? 67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		03/31/10 11:02	? 74-87-3	
1,1-Dichloroethane	ND ug/L		1.0	0.75	1		03/31/10 11:02	? 75-34-3	
1,2-Dichloroethane	ND u	g/L	1.0	0.36	1		03/31/10 11:02	2 107-06-2	
1,1-Dichloroethene	ND u	g/L	1.0	0.57	1		03/31/10 11:02	75-35-4	
cis-1,2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/31/10 11:02	156-59-2	
trans-1,2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/31/10 11:02	156-60-5	
Methylene Chloride	ND u	g/L	1.0	0.43	1		03/31/10 11:02	75-09-2	
Tetrachloroethene	ND u	g/L	1.0	0.45	1		03/31/10 11:02	2 127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/31/10 11:02	? 71-55-6	
,2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/31/10 11:02	? 79-00-5	
ichloroethene	ND u	g/L	1.0	0.48	1		03/31/10 11:02	79-01-6	
Vinyl chloride	ND u	g/L	1.0	0.18	1		03/31/10 11:02	75-01-4	
4-Bromofluorobenzene (S)	79 %	6-	70-130		1		03/31/10 11:02	460-00-4	
Dibromofluoromethane (S)	84 %	, o-	70-130		1		03/31/10 11:02	1868-53-7	
Toluene-d8 (S)	85 %	6-	70-130		1		03/31/10 11:02	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	4.8 m	ng/L	4.0	2.0	1		04/08/10 00:24	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

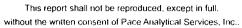
Pace Project No.: 4029910

Sample: A-3	Lab ID: 4029910003		Collected: 03/22/10 14:30		Received: 03/26/10 10:10		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010 MET ICP, Dissolved	Analytical	Melhod: EPA 6	5010						
Manganese, Dissolved	112 uç	g/L	5.0	0.12	1		03/31/10 07:04	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND ug	g/L	20.0	5.0	1		03/31/10 14:32	67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/31/10 14:32	71-43-2	
2-Butanone (MEK)	ND uç	g/L	20.0	4.3	1		03/31/10 14:32	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/31/10 14:32	75-00-3	
Chloroform	3. 4J ug	g/L	5.0	1.3	1		03/31/10 14:32	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/31/10 14:32	74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		03/31/10 14:32	75-34-3	
1,2-Dichloroethane	0.76J ug	g/L	1.0	0.36	1		03/31/10 14.32	107-06-2	
1,1-Dichloroethene	2.4 ug	g/L	1.0	0.57	1		03/31/10 14:32	75-35-4	
cis-1,2-Dichloroethene	9.5 ug	g/L	1.0	0.83	1		03/31/10 14:32	156-59-2	
trans-1,2-Dichloroethene	ND uç	g/L	1.0	0.89	1		03/31/10 14:32	156-60-5	
Methylene Chloride	ND ug	g/L	1.0	0.43	1		03/31/10 14:32	75-09-2	
Tetrachloroethene	14.4 ug	g/L	1.0	0.45	1		03/31/10 14:32	127-18-4	
1,1-Trichloroethane	ND ug	g/L	1.0	0.90	1		03/31/10 14:32	71-55-6	
,2-Trichloroethane	1.8 ug	g/L	1.0	0.42	1		03/31/10 14:32	79-00-5	
ichloroethene	28 .0 ug	g/L	1.0	0.48	1		03/31/10 14:32	79-01-6	
Vinyl chłoride	0.27J ug	g/L	1.0	0.18	1		03/31/10 14:32	75-01-4	
4-Bromofluorobenzene (S)	80 %) -	70-130		1		03/31/10 14:32	460-00-4	
Dibromofluoromethane (S)	82 %	ı -	70-130		1		03/31/10 14:32	1868-53-7	
Toluene-d8 (S)	85 %	1-	70-130		1		03/31/10 14:32	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0						
Sulfate	3.9J m	g/L	4.0	2.0	1		04/08/10 01:00	14808-79-8	

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Project:

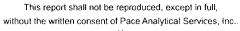
71243.61 MEDLEY FARMS

Pace Project No.: 4029910

Sample: SW-201	Lab ID: 4029910004		Collected: 03/23/10 12:35		Received: 03	3/26/10 10:10 M	Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA	6010						
Manganese, Dissolved	1.1J ug/L		5.0	0.12	1		03/31/10 07:08	7439-96-5	
8260 MSV	Analytical	Method: EPA	3260						
Acetone	ND u	g/L	20.0	5.0	1		03/31/10 11:26	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/31/10 11:26	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 11:26	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/31/10 11:26	75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1		03/31/10 11:26	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		03/31/10 11:26	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/31/10 11:26	75-34-3	
1.2-Dichloroethane	ND u	g/L	1.0	0.36	1		03/31/10 11:26	107-06-2	
1,1-Dichloroethene	ND u	g/L	1.0	0.57	1		03/31/10 11:26	75-35-4	
cis-1,2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/31/10 11:26	156-59-2	
trans-1,2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/31/10 11:26	156-60-5	
Methylene Chloride	ND u	g/L	1.0	0.43	1		03/31/10 11:26	75-09-2	
Tetrachloroethene	1.4 u	g/L	1.0	0.45	1		03/31/10 11:26	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/31/10 11:26	71-55-6	
,2-Trichloroethane	ND u		1.0	0.42	1		03/31/10 11:26	79-00-5	
ichloroethene	2.3 u	g/L	1.0	0.48	1		03/31/10 11:26	79-01-6	
Vinyl chloride	ND u	g/L	1.0	0.18	1		03/31/10 11:26	75-01-4	
4-Bromofluorobenzene (S)	78 %	, o-	70-130		1		03/31/10 11:26	460-00-4	
Dibromofluoromethane (S)	81 %	, 0-	70-130		1		03/31/10 11:26	1868-53-7	
Toluene-d8 (S)	83 %	ó-	70-130		1		03/31/10 11:26	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	7.7 m	ng/L	4.0	2.0	1		04/08/10 01:12	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

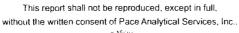
Pace Project No.: 4029910

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Sample: A-4	Lab ID:	4029910005	Collected	: 03/23/10	13:15	Received: 03	3/26/10 10:10	Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	3000 ug	g/L	5.0	0.12	1		03/31/10 07:	12 7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND uş	g/L	20.0	5.0	1		03/31/10 11:4	19 67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/31/10 11:4	19 71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4.3	1		03/31/10 11:4	19 78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/31/10 11:4	19 75-00-3	
Chloroform	ND ug	g/L	5.0	1.3	1		03/31/10 11:4	19 67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/31/10 11:4	19 74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		03/31/10 11:4	19 75-34-3	
1,2-Dichloroethane	1.2 uç	g/L	1.0	0.36	1		03/31/10 11:4	19 107-06-2	
1,1-Dichloroethene	ND ug	g/L	1.0	0.57	1		03/31/10 11:	19 75-35-4	
cis-1,2-Dichloroethene	3.8 ug	g/L	1.0	0.83	1		03/31/10 11:4	19 156-59-2	
trans-1.2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/31/10 11:	19 156-60-5	
Methylene Chloride	ND u	g/L	1.0	0.43	1		03/31/10 11:	19 75-09-2	
Tetrachloroethene	ND u		1.0	0.45	1		03/31/10 11:	19 127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/31/10 11:	19 71-55-6	
.2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/31/10 11:4	19 79-00-5	
ichloroethene	0.72J u		1.0	0.48	1		03/31/10 11:	19 79-01-6	
Vinyl chloride	1.6 ug	g/L	1.0	0.18	1		03/31/10 11:4	19 75-01-4	
4-Bromofluorobenzene (S)	77 %)-	70-130		1		03/31/10 11:	19 460-00-4	
Dibromofluoromethane (S)	82 %)-	70-130		1		03/31/10 11:	19 1868-53-7	
Toluene-d8 (S)	80 %	o-	70-130		1		03/31/10 11:	49 2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	4.5 m	ıg/L	4.0	2.0	1		04/08/10 01:	25 14808-79-8	

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Project:

71243.61 MEDLEY FARMS

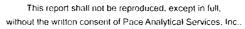
Pace Project No: 4029910

Sample: SW-106	Lab ID:	Lab ID: 4029910006			15.40	Received: 03	3/26/10 10:10 M	Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Dissolved	Analytical	Method: EPA	6010							
Manganese, Dissolved	135 u	g/L	5.0	0.12	1		03/31/10 07:16	7439-96-5		
8260 MSV	Analytical	Method: EPA	3260							
Acetone	ND u	g/L	20.0	5.0	1		03/31/10 12:12	67-64-1		
Benzene	ND u	g/L	1.0	0.41	1		03/31/10 12:12	71-43-2		
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 12:12	78-93-3		
Chloroethane	ND u	g/L	1.0	0.97	1		03/31/10 12:12	75-00-3		
Chloroform	ND u	g/L	5.0	1.3	1		03/31/10 12:12	67-66-3		
Chloromethane	ND u	g/L	1.0	0.24	1		03/31/10 12:12	74-87-3		
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/31/10 12:12	75-34-3		
1,2-Dichloroethane	ND u		1.0	0.36	1		03/31/10 12:12	107-06-2		
1,1-Dichloroethene	ND u	g/L	1.0	0.57	1		03/31/10 12:12	75-35-4		
cis-1,2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/31/10 12:12	156-59-2		
trans-1,2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/31/10 12:12	156-60-5		
Methylene Chloride	ND u	g/L	1.0	0.43	1		03/31/10 12:12	75-09-2		
Tetrachloroethene	ND u	g/L	1.0	0.45	1		03/31/10 12:12	127-18-4		
1,1-Trichloroethane	ND u		1.0	0.90	1		03/31/10 12:12	71-55-6		
,2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/31/10 12:12	79-00-5		
ichloroethene	ND u		1.0	0.48	1		03/31/10 12:12	79-01-6		
Vinyl chloride	ND u	g/L	10	0 18	1		03/31/10 12:12	75-01-4		
4-Bromofluorobenzene (S)	77 %	o-	70-130		1		03/31/10 12:12	460-00-4		
Dibromofluoromethane (S)	83 %	o-	70-130		1		03/31/10 12:12	1868-53-7		
Toluene-d8 (S)	82 %	, o-	70-130		1		03/31/10 12:12	2037-26-5		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0							
Sulfate	8.6 m	ng/L	4.0	2.0	1		04/08/10 01:37	14808-79-8		

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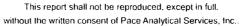
Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4029910

Sample: BW-106	Lab ID: 4029910	007 Collecte	d: 03/23/10	16:00	Received: 03	3/26/10 10:10	Matrix: Water	
Parameters	Results Units	PQL _	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	EPA 6010						
Manganese. Dissolved	0.41J ug/L	5.0	0.12	1		03/31/10 07:2	0 7439-96-5	
8260 MSV	Analytical Method: E	EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		03/31/10 12:3	6 67-64-1	
Benzene	ND ug/L	1.0	0.41	1		03/31/10 12:3	6 71-43-2	
2-Bulanone (MEK)	ND ug/L	20.0	4.3	1		03/31/10 12:3	6 78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		03/31/10 12:3	6 75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		03/31/10 12:3	6 67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		03/31/10 12.3	6 74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		03/31/10 12:3	6 75-34-3	
1.2-Dichloroethane	ND ug/L	1.0	0.36	1		03/31/10 12:3	6 107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/31/10 12:3	6 75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/31/10 12:3	6 156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		03/31/10 12.3	6 156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		03/31/10 12:3	6 75-09-2	
Tetrachloroethene	ND ug/L	1.0	0.45	1		03/31/10 12:3	6 127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/31/10 12:3	6 71-55-6	
:.2-Trichloroethane	ND ug/L	1.0	0.42	1		03/31/10 12:3	6 79-00-5	
richloroethene	0.50J ug/L	1.0	0.48	1		03/31/10 12:3	6 79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		03/31/10 12:3	6 75-01-4	
4-Bromofluorobenzene (S)	80 %-	70-130		1		03/31/10 12:3	6 460-00-4	
Dibromofluoromethane (S)	80 %-	70-130		1		03/31/10 12:3	6 1868-53-7	
Toluene-d8 (S)	86 %-	70-130		1		03/31/10 12:3	6 2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: E	EPA 300.0						
Sulfate	3.1J mg/L	4.0	2.0	1		04/08/10 01:4	9 14808-79-8	

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Project:

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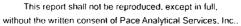
Pace Project No.: 4029910

Sample: SW-101	Lab ID:	Collecte	d: 03/24/10	10:30	Received: 00	3/26/10 10:10 M	Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA	6010						
Manganese, Dissolved	15.7 u	g/L	5.0	0.12	1		04/07/10 13:35	7439-96-5	
8260 MSV	Analytical	Method: EPA	8260						
Acetone	ND u	g/L	20.0	5.0	1		03/31/10 09:53	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/31/10 09:53	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 09:53	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/31/10 09:53	75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1		03/31/10 09:53	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		03/31/10 09:53	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/31/10 09:53	75-34-3	
1,2-Dichloroethane	ND u	g/L	1.0	0.36	1		03/31/10 09:53	107-06-2	
1,1-Dichloroethene	ND u	g/L	10	0.57	1		03/31/10 09:53	75-35-4	
cis-1,2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/31/10 09:53	156-59-2	
trans-1,2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/31/10 09:53	156-60-5	
Methylene Chloride	ND u	g/L	10	0.43	1		03/31/10 09:53	75-0 9- 2	
Tetrachloroethene	0.48J u		1 0	0.45	1		03/31/10 09:53	127-18-4	
1,1-Trichloroethane	ND u		1.0	0.90	1		03/31/10 09:53	71-55-6	
,2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/31/10 09:53	79-00-5	
richloroethene	1.2 u	g/L	1.0	0.48	1		03/31/10 09:53	79-01-6	
Vinyl chloride	ND u		1.0	0.18	1		03/31/10 09:53	75-01-4	
4-Bromofluorobenzene (S)	79 %	- ⁄o-	70-130		1		03/31/10 09:53	460-00-4	
Dibromofluoromethane (S)	83 %	6-	70-130		1		03/31/10 09:53	1868-53-7	
Toluene-d8 (S)	82 %	ó-	70-130		1		03/31/10 09:53	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	5.4 m	ng/L	4.0	2.0	1		04/08/10 02:01	14808-79-8	

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Project:

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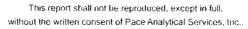
Pace Project No.: 4029910

Sample: BW-201	Lab ID: 4029910009	Collecte	Collected: 03/24/10 13:55			3/26/10 10:10 M	ntrix: Water		
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Dissolved	Analytical Method [®] EPA	6010							
Manganese, Dissolved	24.8 ug/L	5.0	0.12	1		04/07/10 13:54	7439-96-5		
8260 MSV	Analytical Method: EPA	8260							
Acetone	ND ug/L	20 0	5 0	1		03/31/10 12:59	67-64-1		
Benzene	ND ug/L	1.0	0.41	1		03/31/10 12:59	71-43-2		
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		03/31/10 12:59	78-93-3		
Chloroethane	ND ug/L	1.0	0.97	1		03/31/10 12:59	75-00-3		
Chloroform	ND ug/L	5.0	1.3	1		03/31/10 12:59	67-66-3		
Chloromethane	ND ug/L	1.0	0.24	1		03/31/10 12:59	74-87-3		
1,1-Dichloroethane	N D ug/L	1.0	0.75	1		03/31/10 12:59	75-34-3		
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		03/31/10 12:59	107-06-2		
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		03/31/10 12:59	75-35-4		
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		03/31/10 12:59	156-59-2		
trans-1.2-Dichloroethene	ND ug/L	1.0	0.89	1		03/31/10 12:59	156-60-5		
Methylene Chloride	ND ug/L	1.0	0.43	1		03/31/10 12:59	75-09-2		
Tetrachloroethene	0.82J ug/L	1.0	0.45	1		03/31/10 12:59	127-18-4		
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		03/31/10 12:59	71-55-6		
,2-Trichloroethane	ND ug/L	1.0	0.42	1		03/31/10 12:59	79-00-5		
richloroethene	1.4 ug/L	1.0	0.48	1		03/31/10 12:59	79-01-6		
Vinyl chloride	ND ug/L	1.0	0.18	1		03/31/10 12:59	75-01-4		
4-Bromofluorobenzene (S)	79 %-	70-130		1		03/31/10 12:59	460-00-4		
Dibromofluoromethane (S)	85 %-	70-130		1		03/31/10 12:59	1868-53-7		
Toluene-d8 (S)	84 %-	70-130		1		03/31/10 12:59	2037-26-5		
300.0 IC Anions 28 Days	Analytical Method: EPA	300.0							
Sulfate	2.5J mg/L	4.0	2.0	1		04/08/10 02:13	14808-79-8		

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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029910

Sample: A-5	Lab ID:	4029910010	Collected	: 03/24/10) 16·00	Received: 03	3/26/10 10:10 M	atrix: Water	
Parameters	Results	Units	PQL _	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010						
Manganese, Dissolved	610 u	g/L	5.0	0.12	1		04/07/10 13:58	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	260						
Acetone	ND u	g/L	20.0	5.0	1		03/31/10 14:55	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/31/10 14:55	71-43-2	
2-Bulanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 14:55	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		03/31/10 14:55	75-00-3	
Chloroform	5.5 u	g/L	5.0	1.3	1		03/31/10 14:55	67-66-3	
Chloromethane	ND u	g/L	1.0	0 24	1		03/31/10 14:55	74-87-3	
1.1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/31/10 14:55	75-34-3	
1,2-Dichloroethane	1.5 u	g/L	1.0	0.36	1		03/31/10 14:55	107-06-2	
1.1-Dichloroethene	2.8 u	g/L	1.0	0.57	1		03/31/10 14:55	75-35-4	
cis-1,2-Dichloroethene	18.6 u	g/L	1.0	0.83	1		03/31/10 14.55	156-59-2	
trans-1.2-Dichloroethene	ND u		10	0.89	1		03/31/10 14:55	156-60-5	
Methylene Chloride	ND u	g/L	1.0	0.43	1		03/31/10 14:55	75-09-2	
Tetrachloroethene	31.6 u	g/L	1.0	0.45	1		03/31/10 14:55	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/31/10 14:55	71-55-6	
.2-Trichloroethane	1.2 u	g/L	1.0	0.42	1		03/31/10 14:55	79-00-5	
richloroethene	61.3 u	g/L	1.0	0.48	1		03/31/10 14:55	79-01-6	
Vinyl chloride	3.9 u	g/L	1.0	0.18	1		03/31/10 14:55	75-01-4	
4-Bromofluorobenzene (S)	78 %	, o-	70-130		1		03/31/10 14:55	460-00-4	
Dibromofluoromethane (S)	86 %	n-	70-130		1		03/31/10 14:55	1868-53-7	
Toluene-d8 (S)	82 %	, o-	70-130		1		03/31/10 14:55	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method. EPA 3	0.00						
Sulfate	5.0 n	ng/L	4.0	2.0	1		04/08/10 02:50	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029910

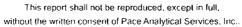
Sample: SW-202 Lab ID: 4029910011 Collected 03/25/10 13:40 Received: 03/26/10 10:10 Matrix: Water

Parameters	Results	Units	PQL -	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA	6010						
Manganese, Dissolved	65.0 u	g/L	5.0	0.12	1		04/07/10 14:02	7439-96-5	
8260 MSV	Analytical	Method: EPA	8260						
Acetone	ND u	g/L	20.0	5.0	1		03/31/10 13:22	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		03/31/10 13:22	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 13:22	78-93-3	
Chloroethane	ND u	g/L	10	0.97	1		03/31/10 13:22	75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1 .		03/31/10 13:22	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		03/31/10 13:22	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/31/10 13:22	75-34-3	
1,2-Dichloroethane	ND u	g/L	1.0	0.36	1		03/31/10 13:22	107-06-2	
1,1-Dichloroethene	ND u	g/L	1.0	0.57	1		03/31/10 13:22	75-35-4	
cis-1,2-Dichloroethene	ND u	g/L	1.0	0.83	1		03/31/10 13:22	156-59-2	
trans-1,2-Dichloroethene	ND u	g/L	1.0	0.89	1		03/31/10 13:22	156-60-5	
Methylene Chloride	ND u	g/L	1.0	0.43	1		03/31/10 13:22	75-09-2	
Tetrachloroethene	1.3 u	g/L	1.0	0.45	1		03/31/10 13:22	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		03/31/10 13:22	71-55-6	
,2-Trichloroethane	ND u	g/L	1.0	0.42	1		03/31/10 13:22	79-00-5	
richloroethene	ND u	g/L	1.0	0.48	1		03/31/10 13:22	79-01-6	
Vinyl chloride	ND u	g/L	1.0	0.18	1		03/31/10 13:22	75-01-4	
4-Bromofluorobenzene (S)	80 %	′о-	70-130		1		03/31/10 13:22	460-00-4	
Dibromofluoromethane (S)	83 %	6-	70-130		1		03/31/10 13:22	1868-53-7	
Toluene-d8 (S)	81 %	6-	70-130		1		03/31/10 13:22	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	2.9J n	ng/L	4.0	2.0	1		04/08/10 03:02	14808-79-8	

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Project:

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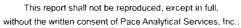
Pace Project No.: 4029910

Sample: A-6	Lab ID:	4029910012	Collecte	d: 03/25/10	15:10	Received: 03	3/26/10 10:10 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	8010						
Manganese, Dissolved	3430 ug	g/L	5.0	0.12	1		04/07/10 14:06	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND uç	g/L	20.0	5.0	1		03/31/10 13:45	67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		03/31/10 13:45	71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4.3	1		03/31/10 13:45	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		03/31/10 13:45	75-00-3	
Chloroform	ND ug	g/L	5.0	1.3	1		03/31/10 13:45	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		03/31/10 13:45	74-87-3	
1,1-Dichloroethane	ND ug	9/L	1.0	0.75	1		03/31/10 13:45	75-34-3	
1,2-Dichloroethane	1.2 uç	g/L	1.0	0.36	1		03/31/10 13:45	107-06-2	
1,1-Dichloroethene	0.77J ug	g/L	1.0	0.57	1		03/31/10 13:45	75-35-4	
cis-1,2-Dichloroethene	19.4 uç	g/L	1 0	0.83	1		03/31/10 13:45	156-59-2	
trans-1,2-Dichloroethene	ND ug	g/L	1.0	0.89	1		03/31/10 13:45	156-60-5	
Methylene Chloride	ND ug	g/L	1.0	0.43	1		03/31/10 13:45	75-09-2	
Tetrachloroethene	ND ug	g/L	1.0	0.45	1		03/31/10 13:45	127-18-4	
1,1-Trichloroethane	ND ug	g/L	1.0	0.90	1		03/31/10 13:45	71-55-6	
,2-Trichloroethane	ND uç	g/L	1.0	0.42	1		03/31/10 13:45	79-00-5	
ichloroethene	3.8 ug	g/L	1.0	0.48	1		03/31/10 13:45	79-01-6	
Vinyl chloride	10.4 ug	g/L	1.0	0.18	1		03/31/10 13:45	75-01-4	
4-Bromofluorobenzene (S)	79 %)-	70-130		1		03/31/10 13:45	460-00-4	
Dibromofluoromethane (S)	81 %)-	70-130		1		03/31/10 13:45	1868-53-7	
Toluene-d8 (S)	86 %)-	70-130		1		03/31/10 13:45	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0						
Sulfate	5.0 m	g/L	4.0	2.0	1		04/08/10 03:14	14808-79-8	

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Project:

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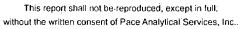
Pace:Project No.: 4029910

Sample: DU-10102	Lab ID:	4029910013	Collecte	d:	_	Received: 03/26/10 10:10 Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010/MET ICP, Dissolved	Analytical	Method: EPA	6010							
Manganese, Dissolved	622 u	g/L	5.0	0:12	1		04/07/10 14:10	7439-96-5		
8260!MSV	Analytical	Method: EPA	8260							
Acetone	ND: u	g/L	20.0	5.0	1		03/31/10 1/4:09	67-64-1		
Benzene	ND- u	g/L	1.0	0.4.1	1		03/31/10 14:09	71-43-2		
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		03/31/10 14:09	78-93-3		
Chloroethane	ND: u	g/L	1.0	0.97	1		03/31/10 14:09	75-00-3		
Chloroform	5.1 u	g/L	5.0	1.3	1		03/31/10 14:09	67-66-3		
Chloromethane	ND u	g/L	1.0	0.24	1		03/31/10 14:09	74-87-3		
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		03/31/10 14:09	75-34-3		
1,2-Dichloroethane	1.3 u	g/L	1.0	0.36	1		03/31/10 14:09	107-06-2		
1,1-Dichloroethene	2.4 u	g/L	1:.0	0.57	1		03/31/10 14:09	75-35-4		
cis-1,2-Dichloroethene	19.1 u	g/L	1.0	0:83	1		03/31/10 14:09	156-59-2 ⁻		
trans-1,2-Dichloroethene	ND u	g/L	1:.0	0.89	1		03/31/10 14:09	156-60-5		
Methylene Chloride	ND u	g/Ŀ	1.0	0.43	1		03/31/10 14:09	75-09-2		
Tetrachloroethene	29.4 u	g/L	1.0	0.45	1		03/31/10-14:09	127-18-4		
1,1-Trichloroethane	ND: u	g/Ľ	1.0	0.90	1		03/31/10-14:09	71-55-6		
42-Trichloroethane	1.1 u	g/Ŀ	1.0	0.42	1		03/31/10 14:09	79-00-5		
ichloroethene	59.3 u	g/L	1.0	0.48	1		03/31/10 14:09	79-01-6		
Vinyl chloride	3.9 u	g/L	1.0	0.18	1		03/31/10 14:09	75-01-4		
4-Bromofluorobenzene (S)	80 %	, o-	70-130		1		03/31/10.14:09	460-00-4		
Dibromofluoromethane:(S)	82 %	o-	70-130		1		03/31/10-14:09	1868-53-7		
Toluene-d8 (S)	83 %	b-	70-130		1		03/31/10:14:09	2037-26-5		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0:							
Sulfate	5.0 m	ıg/L	4:0	2.0	1		04/08/10 03:26	14808-79-8		

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS.

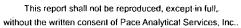
Pace Project No.: 4029910

Sample: TBLK-10103	Lab ID: 4029910014		*Collected: 03/19/10 00:00			Received: 03	3/26/10 10:10 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF _	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical N	fethod: EPA 8	260						
Acetone	ND tig	/L	20.0	5.0	1		03/31/:10 10:16	67-64-1	
Benzene	ND ug	/L	1.0	0.41	1		03/31/10 10:16	71-43-2	
2-Butanone (MEK)	ND ug	/L	20.0	4.3	1		03/31/10 10:16	78-93-3	
Chloroethane	ND ug	/L	1:0	0.97	1		03/31/10 10:16	75-00-3	
Chloroform	ND ug		5.0	1.3	1		03/31/10 10:16	67-66-3	
Chloromethane	ND ug	/L	1.0	0.24	1		03/31/10 10:16	74-87-3	
1,1-Dichloroethane	ND ug		1:0	0.75	1		03/31/10 10:16	75-34-3	
1,2-Dichloroethane	ND ug	/L	1.0	0.36	1		03/31/10 10:16	107-06-2	
1,1-Dichloroethene	ND ug		1.0	0.57	1		03/31/10 10:16	7.5-35-4	
cis-1,2-Dichloroethene	ND ug	/L	1.0	0,83	1		03/31/10 10:16	156-59-2	
trans-1,2-Dichloroethene	ND ug	/L	1.0	0.89	1		03/31/10 10:16	156-60-5	
Methylene [,] Chloride	ND ug	/L	1:0	0.43	1		03/31/10 10:16	75-09-2	
Tetrachloroethene	ND ug	/L	1:0	0.45	1		03/31/10 10:16	127-18-4	
1,1,1-Trichloroethane	ND ug	/L	1.0	0.90	1		03/31/:10 10:16	71-55-6	
1,1,2-Trichloroethane	ND ug	/L	1:0	0.42	1		03/31/10 10:16	79-00-5	
Trichloroethene	ND ug	′L	1.0	0.48	1		03/31/10 10 16	79-01-6	
Vinyl chloride	ND ug	/ Ŀ	1:0	0.18.	1		03/31/10 10:16	7.5-01-4	
3romofluorobenzene (S)	81 %-		70-130		1		03/31/10 10:16	460-00-4	
.oromofluoromethane (S)	85 %-		70-130		1		03/31/10 10:16	1868-53-7	
Toluene-d8 (S)	86 %-		70-130		1		03/31/10 10:16	2037-26-5	

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

QC Batch:

ICP/3256

Analysis Method:

EPA 6010

:QC Batch Method:

ICP:Metals, Trace, Dissolved

Associated Lab.Samples:

EPA 6010

Analysis Description:

4029910001, 4029910002, 4029910003, 4029910004, 4029910005, 4029910006, 4029910007

METHOD BLANK: 280723

Matrix: Water

Associated Lab Samples:

4029910001, 4029910002, 4029910003, 4029910004, 4029910005, 4029910006, 4029910007

Blank

Reporting

Parameter

Units

Units

Result

Limit

Analyzed

Qualifiers

Manganese, Dissolved

ug/L

ND

03/31/10 05:29 5.0

LABORATORY CONTROL SAMPLE:

Parameter

280724

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Manganese, Dissolved

ug/L

Units

:ug/L

500

467

280726

93

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

280725

MS:

MSD Spike

MŚ MSD MS

MSD

% Rec

Max RPD: RPD

Qual

anganese, Dissolved

Parameter

4029860026 Result

258

Spike Conc. 500

Conc. 500

Result Result 708 708 % Rec 90

% Rec

Limits 75-125

90

.01

20:

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

QC Batch:

ICP/3272

Analysis Method:

EPA 6010

QC Batch Method:

EPA 6010

Analysis Description:

Associated Lab Samples:

4029910008, 4029910009, 4029910010, 4029910011, 4029910012, 4029910013

ICP Metals, Trace, Dissolved

METHOD BLANK:

Matrix: Water

Associated Lab Samples:

4029910008, 4029910009, 4029910010, 4029910011, 4029910012, 4029910013

Blank

Reporting

Parameter

Units

Units

Result

Limit

Analyzed

Qualifiers

Manganese, Dissolved

ug/L

ND

04/07/10 13:27 5.0

LABORATORY CONTROL SAMPLE:

Parameter

Spike Conc.

LCS Result

LCS % Rec % Rec Limils

80-120

Qualifiers

Manganese, Dissolved

ug/L

Units

500

511

282100

102

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

282099

MS Spike

MSD Spike Conc

MS MSD Result Result

MS % Rec

MSD % Rec % Rec Limits

Max

RPD RPD Qual

Parameter anganese, Dissolved

ug/L

4029910008 Result 15.7

Conc 500

500

513

515

100

99

75-125

20

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

QC Batch:

MSV/7352

Analysis Method:

EPA 8260

OC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples:

4029910001, 4029910002, 4029910003, 4029910004, 4029910005, 4029910006, 4029910007, 40299100080008, 4029910008, 40299100008, 40299100008, 40299100008, 402991000008, 40299100008, 40299100008, 40299100008, 40299100008, 402

4029910009, 4029910010, 4029910011, 4029910012, 4029910013, 4029910014

METHOD BLANK: 280370

Matrix: Water

Associated Lab Samples:

4029910001, 4029910002, 4029910003, 4029910004, 4029910005, 4029910006, 4029910007, 4029910008,

4029910009, 4029910010, 4029910011, 4029910012, 4029910013, 4029910014

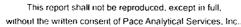
	Blank	Reporting		
Units	Result	Limit	Analyzed	Qualifiers
ug/L	ND .	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07.44	
ug/L	ND	20.0	03/31/10 07:44	
ug/L	ND	20.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	5.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	NÐ	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	10	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
ug/L	ND	1.0	03/31/10 07:44	
%-	79	70-130	03/31/10 07:44	
%-	79	70-130	03/31/10 07:44	
%-	84	70-130	03/31/10 07:44	
	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Units Result ug/L ND wg/L ND wg/L ND %- 79 %- 79	Units Result Limit ug/L ND 1.0 ug/L ND 1.0 ug/L ND 1.0 ug/L ND 1.0 ug/L ND 20.0 ug/L ND 1.0 wg/L ND 1.0 ug/L ND 1.0 wg/L ND 1.0 wg/L ND 1.0 </td <td>Units Result Limit Analyzed ug/L ND 1.0 03/31/10 07:44 ug/L ND 20.0 03/31/10 07:44 ug/L ND 1.0 03/31/10 07:44</td>	Units Result Limit Analyzed ug/L ND 1.0 03/31/10 07:44 ug/L ND 20.0 03/31/10 07:44 ug/L ND 1.0 03/31/10 07:44

LABORATORY CONTROL SAME	PLE & LCSD: 280371		28	30372					_	
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1.1-Trichloroethane	ug/L	50	54.5	55.1	109	110	70-132	1	20	
1,1.2-Trichloroethane	ug/L	50	47.6	49.4	95	99	70-130	4	20	
1,1-Dichloroethane	ug/L	50	52.4	51.8	105	104	70-130	1	20	
1,1-Dichloroethene	ug/L	50	52.0	50.8	104	102	70-130	2	20	
1,2-Dichloroethane	ug/L	50	52.8	52.9	106	106	70-134	.2	20	
2-Butanone (MEK)	ug/L	50	60.6	53.5	121	107	36-181	12	35	
Acetone	ug/L	50	73.1	67.9	146	136	10-200	7	36	
Benzene	ug/L	50	50.2	50.3	100	101	70-131	.2	20	
Chloroethane	ug/L	50	53.1	53.9	106	108	70-136	1	20	
Chloroform	ug/L	50	50.7	51.1	101	102	70-130	.6	20	
Chloromethane	ug/L	50	46.1	45.0	92	90	54-148	2	20	
cis-1,2-Dichloroethene	ug/L	50	49.5	50.2	99	100	70-130	2	20	
Methylene Chloride	ug/L	50	49.5	48.7	99	97	66-130	2	20	
Tetrachloroethene	ug/L	50	52.0	52.2	104	104	75-130	.4	20	
trans-1,2-Dichloroethene	ug/L	50	49.9	50.7	100	101	70-130	1	20	
Trichloroethene	ug/L	50	54.8	54.1	110	108	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4029910

LABORATORY CONTROL SAME	PLE & LCSD: 280371		28	30372						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Vinyl chloride	ug/L	50	45.4	45.1	91	90	63-141	.5	20	-
4-Bromofluorobenzene (S)	%-				81	81	70-130			
Dibromofluoromethane (S)	%-				83	83	70-130			
Toluene-d8 (S)	0/0-				83	85	70-130			

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 28085	6		280857							
	40	029910008	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
1,1,1-Trichloroethane	ug/L	ND	50	50	55.1	55.7	110	111	70-137	1	20	-
1,1.2-Trichloroethane	ug/L	ND	50	50	45.6	47.5	91	95	70-130	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	53.0	52.3	106	105	70-130	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.7	51.1	101	102	70-130	.6	20	
1.2-Dichloroethane	ug/L	ND	50	50	51.0	51.8	102	104	69-134	2	20	
2-Butanone (MEK)	ug/L	ND	50	50	41.7	44.5	83	89	36-181	7	35	
Acetone	ug/L	ND	50	50	45.9	48.8	92	98	10-200	6	36	
Benzene	ug/L	ND	50	50	49.2	50.5	98	101	69-131	3	20	
hloroethane	ug/L	ND	50	50	52.0	52.1	104	104	66-136	.1	20	
ıloroform	ug/L	ND	50	50	51.7	52.5	103	105	70-130	2	20	
Chloromethane	ug/L	ND	50	50	44.6	43.5	89	87	54-148	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.1	52.0	102	104	70-130	2	20	
Methylene Chloride	ug/L	ND	50	50	49.3	49.3	99	99	64-130	.08	20	
Tetrachloroethene	ug/L	0.48J	50	50	51.0	53.1	101	105	70-130	4	20	
trans-1.2-Dichloroethene	ug/L	ND	50	50	48.8	48.9	98	98	70-130	.1	20	
Trichloroethene	ug/L	1.2	50	50	55.3	55.3	108	108	70-130	.05	20	
Vinyl chloride	ug/L	NĎ	50	50	46.2	44.8	92	90	59-141	3	20	
4-Bromofluorobenzene (S)	%-						78	81	70-130			
Dibromofluoromethane (S)	%-						86	85	70-130			
Toluene-d8 (S)	%-						82	84	70-130			

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REPORT OF LABORATORY ANALYSIS





Project¹

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

QC Batch:

WETA/6101

Analysis Method:

EPA 300.0

QC Batch Method:

EPA 300.0

Analysis Description:

300.0 IC Anions

Associated Lab Samples:

4029910001, 4029910002, 4029910003, 4029910004, 4029910005, 4029910006, 4029910007, 4029910008,

4029910009, 4029910010, 4029910011, 4029910012, 4029910013

METHOD BLANK: 283762 Matrix: Water

Associated Lab Samples:

4029910001, 4029910002, 4029910003, 4029910004, 4029910005, 4029910006, 4029910007, 4029910008,

4029910009, 4029910010, 4029910011, 4029910012, 4029910013

Blank

Reporting

Parameter

Units

Units

4029910002

Result

Result

711

Result

Limit

Analyzed

Qualifiers

Sulfate

mg/L

ND

4.0 04/07/10 23:11

LABORATORY CONTROL SAMPLE: 283763

Parameter

Parameter

Parameter

Spike Conc.

MS

Spike

Conc.

MS

20

LCS Result

LCS % Rec

% Rec Limits

Qualifiers

Sulfate

mg/L

Units

Units

mg/L

mg/L

20

19.4

283765

MS

Result

90-110

% Rec

91

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

283764

4.8

MSD

Spike

MSD

Result

MSD

23.0

MS MSD

92

% Rec

% Rec Limits

Max

8.

RPD RPD Qual 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

283766

MSD

Conc.

400

20

MS

23 1

MS

115

MSD

% Rec

90-110

Max Qual

Sulfate

Sulfate

4030176001 Spike Conc.

Spike Conc.

400

Result 1170

283767

% Rec Result 1110

% Rec

Limits 90-110

RPD RPD

20 M0

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

QUALIFIERS

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4029910

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

NALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

71243.61 MEDLEY FARMS

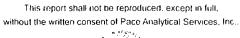
Pace Project No.:

4029910

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4029910001	BW-4	EPA 6010	ICP/3256		
4029910002	BW-3	EPA 6010	ICP/3256		
029910003	A-3	EPA 6010	ICP/3256		
029910004	SW-201	EPA 6010	ICP/3256		
029910005	A-4	EPA 6010	ICP/3256		
029910006	SW-106	EPA 6010	ICP/3256		
029910007	BW-106	EPA 6010	ICP/3256		
029910008	SW-101	EPA 6010	ICP/3272		
029910009	BW-201	EPA 6010	ICP/3272		
029910010	A-5	EPA 6010	ICP/3272		
029910011	SW-202	EPA 6010	ICP/3272		
029910012	A-6	EPA 6010	ICP/3272		
1029910013	DU-10102	EPA 6010	ICP/3272		
1029910001	BW-4	EPA 8260	MSV/7352		
029910002	BW-3	EPA 8260	MSV/7352		
029910003	A-3	EPA 8260	MSV/7352		
029910004	SW-201	EPA 8260	MSV/7352		
029910005	A-4	EPA 8260	MSV/7352		
າ29910006	SW-106	EPA 8260	MSV/7352		
29910007	BW-106	EPA 8260	MSV/7352		
J29910008	SW-101	EPA 8260	MSV/7352		
029910009	BW-201	EPA 8260	MSV/7352		
029910010	A -5	EPA 8260	MSV/7352		
029910011	SW-202	EPA 8260	MSV/7352		
029910012	A-6	EPA 8260	MSV/7352		
029910013	DU-10102	EPA 8260	MSV/7352		
029910014	TBLK-10103	EPA 8260	MSV/7352		
029910001	BW-4	EPA 300.0	WETA/6101		
029910002	BW-3	EPA 300.0	WETA/6101		
029910003	A-3	EPA 300.0	WETA/6101		
029910004	SW-201	EPA 300.0	WETA/6101		
029910005	A-4	EPA 300.0	WETA/6101		
029910006	SW-106	EPA 300.0	WETA/6101		
029910007	BW-106	EPA 300.0	WETA/6101		
029910008	SW-101	EPA 300.0	WETA/6101		
029910009	BW-201	EPA 300.0	WETA/6101		
029910010	A-5	EPA 300.0	WETA/6101		
029910011	SW-202	EPA 300.0	WETA/6101		
029910012	A-6	EPA 300.0	WETA/6101		
1029910013	DU-10102	EPA 300.0	WETA/6101		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CU. OY RECORD

				eenville, SC 29615-3535		170	Filtered (Yes/No)										
) • Fax 86	4/281-0288						Preser	ved (Co	de) /2	-/B	A			\mathcal{L}	
Project No. 71243 Project Ma	・C/ nager/Co	ntact Perso	t/Client: Nedley Farms on: Terny Hertz		umber ainers	×		.\\\ 50 ⁵ .	QeOV	Maria						A - B - C -	ESERVED CODES - NONE - HNO ₃ - H ₂ SO ₄ - NaOH
Lab No.		Time		ole Station ID	Total Number of Containers	MATRIX	Pr.	57. 57.	1/3/ 2/7/				//	/ /c.	emments:	F - G -	
201	3-19	1035	Bw-4		5	GW	3	l	1					2-8	350ml AD	3-4	Om B
002		1240	BW-3		5	GW	3	1)								
003	3.22	1430	A-3		5	Gw_	3	1	1								
	3 · 23	1235	Sw-201	·	5	G W	3	l	1				<u> </u>		<u> </u>		
005	3-23	1315	A-4		٤	S W	3		1								
006	7 -23	1540	Sw-104		S	GW	3	l	1			_					
DOM	3-23	1600	BW-106		2	Gω	3	١	(
008	3-24	1050	Sw -/01		S	ر س	3	ı	1			_					
009	3-24	1355	BW-201		٤	Sw	3	ŧ	1								
010	<i>3</i> -24	1600	€ A-S		ک	Gw	3))					\ \	/	U	
SPECIAL IN	STRUCTIO)NS				<u></u>			· · · · · · · · · · · · · · · · · · ·		•						
						•											
SAMPLER R	uch		1730 1/25/10	Received by (Signature) Ferl Ex #8712 6041	3535	e/Time 1730 3/25/10	\	ARDS / WITH S	SAMPL		Turn	Around rt Due _	•		Normal	Rush	
Relinquished FEC Relinquished	d Ex		Date/Time 3/26/10 1010 Date/Time		3/26/10	e/Time <u> </u>		Corr Highl Othe	ly Toxid		Rec Tem	eipt Tem p Blank	p: 4/00 Y	(For	Lab Use Only	Receip	
Custody Se	al: Prese	ent/Absen	t Intact/Not Intact	Seal #s							1 -			_			





402°0 770%

	tewood Plaza One, Greenville, SC 29615-3535			Filtered (Yes/No) /v / y /v /								
Phone 864/281-0030 • Fax 864/	/281-0288				F	reserv	ed (Co	de) /E		/A/		
Project No. 1-0001 71243.61 Project Manager/Contact Person Sfcuc Webb/Te	Medley farms	Total Number of Containers	RIX		0488	Rechi	Sted Sted	830.50				PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NoOH
Lab No. Yr. 16 Date Time	Sample Station ID		MATRIX	4		27	7 . 9 7 . 7		//	_	Comments:	E — HCI F — METHANOL G —
011 3-25 1340	Sw-202	5	Sw	3	1	1					2-250m1 AD	3-40m18
012 3-25 1510	A-G											
013	DU-10102	5	<u>6</u> w	3	1	1					U	
014	TBLK-10103	a	DI	2							2-40m1B	
											- -	 .
SPECIAL INSTRUCTIONS												
SAMPLER Relinquished by (Signat BUMELL: Relinquished by (Signature) FEA EX. Relinquished by (Signature)	1730 3/25/10 Fed S. 8712 6041 85 Date/Time Received by (Signature) Al216/10 1010 K Mull (1 3/2) Date/Time Received by (Signature)	535 Date	e/Time	\	ARDS A WITH S I Flam I Corre I Highly I Othe	iAMPLI mable osive y Toxic	E\$	Report Recei	round (c Due pt Temp Blank	400	(For Lab Use Only)	Rush eceipt pH /et/Metals)
Custody Seal: Present/Absent	Intact/Not Intact Seal #s											

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name	: <u>Rm</u>	T		Pr	oject#_ L	1029	7910
Courier: Fed Ex T UPS T USPS T	Client Con	nmerc	ial Pace	— Other			
Tracking #:							
Custody Seal on Cooler/Box Present: yes	/ - ho	Seals	intact:	F-110	Optio	nal	多為。以機構的
Custody Seal on Samples Present: yes	no	Seals	intact: yes	no سَلَ	Proj:	Due Date	
Packing Material: Bubble Wrap	ble Bags Γ	Non	e Other		Proj.	Name:	
Thermometer Used UB		\sim	Blue Dry None	Γ	Samples on ice, co	ooling proce	ess has begun
Cooler Temperature 4°C	Biological T	issue	is Frozen: Tye				
Temp Blank Present:			∫ nc)	Person examinin		:
Temp should be above freezing to 6° C for all sample exc Biota Samples should be received $\leq 0^{\circ}$ C.	cept Biota.		Comments:		Date: <u>3-21</u> Initials:	km	
Chain of Custody Present:	□¥cs □No	□N/A	1				
Chain of Custody Filled Out:	₽Yes □No	I⊒ln/a	2.				
Chain of Custody Relinquished:	- Pres □No	□n/a	3.				
Sampler Name & Signature on COC:	₽Yes □No	□N/A	4.				
Samples Arrived within Hold Time:	ÆYes □No	□N/A	5.				
Short Hold Time Analysis (<72hr):	□Yes ₽No	□n/A	6.				
Rush Turn Around Time Requested:	□Yes ₽No	□N/A	7.				
Sufficient Volume:	-BYes □No	□n/a	8.				
Correct Containers Used:	ÆYes □No	∏n/A	9.				
ace Containers Used:	-EYes □No	□N/A					
Containers Intact:	ŁTYes □No	□N/A	10.				
Filtered volume received for Dissolved tests	□Yes 🗖No	□n/A	11.				
Sample Labels match COC:	EYes []No	□n/A	12.				
-Includes date/time/ID/Analysis Matrix:	$\omega_{}$	_					1
All containers needing preservation have been checked.	ØYes □No	□n/a	13	 =			
All containers needing preservation are found to be in			13.				
compliance with EPA recommendation.	Ælies □No	AML	Initial when .		Lot # of added		
exceptions VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No		completed X	<u>n</u>	preservative		
Samples checked for dechlorination:	□Yes 🗷 No	□N/A	14.				
Headspace in VOA Vials (>6mm):	□Yes -EfNo	□N/A	15.				
Trip Blank Present:	ÆYes ∐No	□n/a	16.				
Trip Blank Custody Seals Present	□Yes ☑No	□n/a					Ì
Pace Trip Blank Lot # (if purchased):							
Client Notification/ Resolution:					Field Data Requir	ed?	Y / N
Person Contacted: Comments/ Resolution:		Date/	I ime:				
Comments/ Aesolution,			-				
	1				·		
ગુંect Manager Review:		w	•		Date:	2/29/	10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Address: Patewood Plaza One

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Page: Page 1 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Laboratory Results

Total pages in data package: ____/ 1

Client Sample ID Lab Sample # P1003359-01 BW-4 P1003359-02 BW-3 P1003359-03 A-3 P1003359-04 SW-201 P1003359-05 A-4 SW-106 P1003359-06 203359-07 BW-106 03359-08 SW-101 BW-201 P1003359-09 P1003359-10 A-5 P1003359-11 SW-202 P1003359-12 A-6 P1003359-13 DU-10102

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By:	Xlibrita	llo	Date:	4-12-10	
Project Manager:	Debbie Hallo				

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.

Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

TEMP-OK; COC-SIGNED; HT OK; NARR-N/A MBLK - CLEAN 165- RECS OK MS/MSD-DU-10102 USED; RECS & RPDS OK

DUP - DU-10102 IS A FIELD DUPLICATE OF A-5. NO DETECTIONS IN DV-10102. PROPIONIC ACID AT 1.0 J mg/Lin A-5. RPD NOT CALCULATED

Client Name: RMT, Inc. Contact: Steve Webb

Address: Patewood Plaza One

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Page: Page 1 of 16 Lab Proi #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Laboratory Results

Total pages in data package:

Lab Sample # Client Sample ID P1003359-01 BW-4 BW-3 P1003359-02 P1003359-03 A-3 SW-201 P1003359-04 P1003359-05 A-4 P1003359-06 SW-106 P1003359-07 BW-106 P1003359-08 SW-101 P1003359-09 BW-201 P1003359-10 A-5 P1003359-11 SW-202 P1003359-12 A-6 P1003359-13 DU-10102

TLA 4/13/10

Microseeps test results meet all the registrements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By:

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

> As a valued client we would appreciate your comments on our service. Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

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Page: Page 2 of 16
Lab Proj:#: P1003359
Report Date: 04/12/10
Client Proj Name: Medley Farm:
Client Proj:#: 00-71243.61 T1

Case Narrative:

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Page: Page 3 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Sample Description BW-4	<u>Matrix</u> Water	Lab Sample # P1003359-01			Sampled Date/Time 19 Mar. 10 10:35	<u>Received</u> 26 Mar. 10 12:44		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву	
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid	U U U	2.3 < 1.0 < 25.0 < 1.0	1.0 1.0 25.0 1.0	mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G	4/9/10 4/9/10 4/9/10 4/9/10	td td td td	
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/9/10	td	

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Page: Page 4 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm

Sample Description BW-3	<u>Matrix</u> Water	Lab Sample # P1003359-02			Sampled Date/Time 19 Mar. 10 12:40	<u>Received</u> 26 Mar. 10 12:44	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/9/10	td
N Butyric Acid		2.9	1.0	mg/L	AM21G	4/9/10	td
N Lactic Acid	Ŭ	< 25.0	25.0	mg/L	AM21G	4/9/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/9/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/9/10	td

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Page: Page 5 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm

Sample Description A-3	<u>Matrix</u> Water	Lab Sample # P1003359-03			Sampled Date/Time 22 Mar. 10 14:30	<u>Received</u> 26 Mar. 10 12:44	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles	• •				<u> </u>		•
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/9/10	td
N Butyric Acid	J	0.8	1.0	mg/L	AM21G	4/9/10	td
N Lactic Acid	Ų	< 25.0	25.0	mg/L	AM21G	4/9/10	td
N Propionic Acid	Ŭ	< 1.0	1.0	ma/L	AM21G	4/9/10	tď
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/9/10	td

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Page: Page 6 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Sample Description SW-201	•		Sampled Date/Time 23 Mar. 10 12:35	<u>Receiv</u> 26 Mar. 10			
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid N Pyruvic Acid	n n n	< 1.0 < 1.0 2.6 < 1.0 < 10.0	1.0 1.0 25.0 1.0 10.0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	4/9/10 4/9/10 4/9/10 4/9/10 4/9/10	td td td td td

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Page: Page 7 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm

Sample Description A-4	<u>Matrix</u> Water	P1003359-05			Sampled Date/Time 23 Mar. 10 13:15	<u>Received</u> 26 Mar. 10 12:44		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву	
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td	
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td	
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/10/10	td	
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td	
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/10/10	td	

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Page: Page 8 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm

Sample Description SW-106	<u>Matrix</u> Water	Lab Sample # P1003359-06		Sampled Date/Time 23 Mar. 10 15:40	Receive 26 Mar. 10		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/10/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/10/10	td

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Page: Page 9 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm

Sample Description BW-106	<u>Matrix</u> Water	Lab Sample # <u>\$</u> P1003359-07			Sampled Date/Time 23 Mar. 10 16:00	<u>Receive</u> 26 Mar. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/10/10	td
N Propionic Acid	Ü	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/10/10	td

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Page: Page 10 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Sample Description SW-101	<u>Matrix</u> Water			Sampled Date/Time 24 Mar. 10 10:50	<u>Receive</u> 26 Mar. 10		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/10/10	td
N Propionic Acid	J	0.6	1.0	mg/L	AM21G	4/10/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/10/10	td

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Page: Page 11 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Sample Description	<u>Matrix</u>	Lab Sample #		Sampled Date/Time	<u>Received</u>		
BW-201	Water	P1003359-09		24 Mar. 10 13:55	26 Mar. 10 12:44		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid	U	< 1.0 < 1.0	1.0 1.0	mg/L mg/L	AM21G AM21G	4/10/10 4/10/10	td td
N Lactic Acid	υ	< 25.0	25.0	mg/L	AM21G	4/10/10	td
N Propionic Acid	υ	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Pyruvic Acid	υ	< 10.0	10.0	mg/L	AM21G	4/10/10	td

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Page: Page 12 of 16 Lab Proj #: P1003359 Report Date: 04/12/10

Client Proj Name: Medley Farm

Sample Description A-5	<u>Matrix</u> Water	Lab Sample # P1003359-10			Sampled Date/Time 24 Mar. 10 16:00	<u>Received</u> 26 Mar. 10 12:44	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles						•	······································
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/10/10	td
N Propionic Acid	J	1.0	1.0	mg/L	AM21G	4/10/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/10/10	td

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Page: Page 13 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Sample Description SW-202	<u>Matrix</u> Water	Lab Sample # P1003359-11			Sampled Date/Time 25 Mar. 10 13:40	<u>Received</u> 26 Mar. 10 12:44	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/10/10	td
N Propionic Acid	υ	< 1.0	1.0	mg/L	AM21G	4/10/10	td
N Pyruvic Acid	J	3.0	10.0	ma/L	AM21G	4/10/10	tď

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Page: Page 14 of 16 Lab Proj.#: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Sample Description A-6	<u>Matrix</u> Water	Lab Sample # P1003359-12		Sampled Date/Time 25 Mar. 10 15:10	<u>Received</u> 26 Mar. 10 12:44		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid	U U	< 1.0 < 1.0	1.0 1.0	mg/L mg/L	AM21G AM21G	4/10/10 4/10/10	td td
N Lactic Acid N Propionic Acid N Pyruvic Acid	U U	< 25.0 < 1.0 < 10.0	25.0 1.0 10.0	mg/L mg/L mg/L	AM21G AM21G AM21G	4/10/10 4/10/10 4/10/10	td td td

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Page: Page 15 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm

Sample Description DU-10102	<u>Matrix</u> Water	Lab Sample # P1003359-13		Sampled Date/Time 25 Mar. 10 0:00	<u>Received</u> 26 Mar. 10 12:44		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid N Pyruvic Acid	U U U	< 1.0 < 1.0 < 25.0 < 1.0 < 10.0	1.0 1.0 25.0 1.0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	4/10/10 4/10/10 4/10/10 4/10/10 4/10/10	td td td td

Client Name: RMT, Inc. Contact: Steve Webb

Address: Patewood Plaza One

Suite 100

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Page: Page 16 of 16 Lab Proj #: P1003359 Report Date: 04/12/10 Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Prep Method: Analysis of Volatile Fatty Acids in WaterAnalysis Method: Analysis of Volatile Fatty Acids in Water

M100412016-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits		
Acetic Acid	< 1.0	mg/L		1.0		- NA		
Propionic Acid	< 1.0	mg/L		1.0		- NA		
Butyric Acid	< 1.0	mg/I.		1.0		- NA		
Lactic Acid	< 25.0	mg/I,		25.0		- NA		
Pyruvic Acid	< 10.0	mg/L		10.0		- NA		
M100412016-LCS								
	Result		TrucSpikeConc.		%Recovery	Ctl Limits		
etic Acid	110.0	mg/L	100.00		110.00	70 - 130		
Propionic Acid	100.0	mg/L	100.00		100.00	70 - 130		
Butyric Acid	90.0	mg/L	100.00		90.00	70 - 130		
Lactic Acid	110.0	mg/L	100.00		110.00	70 - 130		
Pyruvic Acid	96.0	mg/L	100.00		96.00	70 - 130		
P1003359-13A-MS								
	Result		TrueSpikeConc.		%Recovery	Ctl Limits		
Acetic Acid	110.0	mg/L	100.00		110.00	70 - 130		
Propionic Acid	110.0	mg/L	100.00		110.00	70 - 130		
Butyric Acid	98.0	mg/L	100.00		98.00	70 - 130		
Lactic Acid	96.0	mg/L	100.00		96.00	70 - 130		
Pyruvic Acid	94.0	mg/L	100.00		94.00	70 - 130		
P1003359-13A-MSD								
	Result		TrueSpikeConc.		%Recovery	Ctl Limits	<u>RPD</u>	RPD Ctl Limits
Acetic Acid	110.0	mg/L	100.00		110.00	70 - 130	0.00	0 - 20
Propionic Acid	120.0	mg/L	100.00		120.00	70 - 130	8.70	0 - 20
Butyric Acid	110.0	mg/L	100.00		110.00	70 - 130	11.54	. 0 - 20
Lactic Acid	100.0	mg/L	100.00		100.00	70 - 130	4.08	0 - 20
Pyruvic Acid	95.0	mg/L	100.00		95.00	70 - 130	1.06	0 - 20







CHAIN OF CUS. Y RECORD

1703359 7707:

30 Patewood Phone 864/2			The state of the s	enville, SC 29615-3535			ļ,_				Yes/No	برراه	Z			//	
Project No. 71243 Project Mar	7-0001 -61 nager/Co	Project	t/Client: Medley Farms on: rry Hertz		umber ainers	×	Aric			ed (Co	//	<u> </u>	/ //				PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NoOH
	Yr. <u>10</u> Date	Time		ole Station ID	Total Number of Containers	MATRIX	PU		* /		//	//			Commen	ts:	E — HCI F — METHANOL G —
	3-19	1035	BW-4		2	Sw	2										
2	3-19	1240			2	GW	2								L		
3	3-22	1430	A-3		2	Gw	2										
У	3-23	1235	SW-201		2	Gω	2										
5	3-23	1315	A-4		2	Gw	2										
6	3.23	1540	SW-104		2	Gw	2										
7	3-23	1600	Bw-106		2	Gω	ی										
8	3-24	10.50	SW-101		2	Gw	7										
१	3-24	1355	BW-201		2	Gw	2								1		
1)	3-24	1600	A-5		2		2										
SPECIAL IN	STRUCTION	SMC													······································		
SAMPLER R	redh:		UEF1 G1/25/E	Received by (Signature)	DYD:	te/Time 1730 3-25-10	\	ARDS A WITH S	AMPL	ES	Tur				one) Nor	mal	Rush
Relinquishe	d by (Sigi	nature) nature)	Date/Time	Received by (Signature)	Da	te/Time		Corr Highl	osive y Toxi	c	R	eceipt emp Blo	Temp	- :	(For Lab	F	Receipt pH Wet/Metals)
Custody Se	eal: Pres	ent/Abser	nt Intact/Not Intact	Seal #s											_		



CHAIN OF CUSTODY RECORD P1003359 77075

			atewood Plaza One, Greenville, SC 29615-3535							Yes/No	100	<u></u>			
Project No 71243 Project Mo	. 7-0 001 5- 61 anager/Co	Project	t/Client: Medley Farms on: Evry Hertz	Jmber Jiners	×		John Strategy Strateg		ed (Co	/				PRESERVED CO A NONE B HNO ₃ C H ₂ SO ₂ D NoOH	ODES
Lab No.	Yr. 10 Date	Time	Sample Station ID	II Total Number of Containers	MATRIX	Þ.	30/2) /		//	//		Comments	E — HCI F — METHANO) .
1)	3-25	1340	SW-202	l a	Gu	2									
12	3-25	15/0	A-6	2	GW	2									
13			DU-10102	2	Sw	2									
				<u> </u>											
														·	
															···· -
														-	
SPECIAL II	NSTRUCTION	ONS													
Relinquish Relinquish	ed by (Sig	nature)	725/10 FcLS \$712 6041 88 Date/Time Received by (Signature) Date/Time Received by (Signature)	Dc Do	te/Time 1730 ZIZS/10 te/Time te/Time		ARDS: WITH: Flam Core High	SAMPI nmable rosive ly Toxi	ES e	Rep Rep	n Aroun nort Due eceipt Te mp Blar	 mp;	(For Lab U		

Cooler Receipt Form

lient:RMT, Inc.	Client Co	de:RMTSC	LabProject #: P1003359	
Project: Medley Farm				
Cooler ID: 1				
A. Preliminary Examination Phase	Date cooler open	ed: 3/26/2010	•	
	Cooler opened by	y: dp		
1. Was airbill Attached? N/A	Airbill #:		Carrier Name: FedEx	
2. Custody Seals? N/A	How many?	0 Location	n: Seal Name:	
3. Seals intact? Yes				
4. Screened for radiation? N/A				
5. COC Attached? Yes	Properly Compl	eted? Yes	Signed by employee? Yes	
6. Project Identification from custo	dy paper: Medley Fa	ırm		
7. Preservative: Yes	Temperature:	4		
Comments:		·		
B. <u>Log-In Phase</u> : Samples Log-in D		Log-in By: dp	and a second of the second	
1. Packing Type: Other				
Were samples in separate bags?	N/A			
3. Were containers intact?	Yes	Labels agree w	ith COC? Yes	
4. Number of bottles received:	26	Number of sam	ples received: 13	
5. Correct containers used?	Yes	Correct presen	vatives added? N/A	
6. Sufficient sample volume?	Yes			
7. Bubbles in VOA samples?	N/A			
8. Was Project manager called and	status discussed?	N/A		
Comments:				

Have designate person initial here to acknowledge receipt of cooler:

Date: 726/15





April 16, 2010

Mark Bailey RMT Greenville 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4030145

Dear Mark Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang

kang.khang@pacelabs.com

Project Manager

Kasa Kly

Enclosures



TEMP-OK; COC-SIGNED; NARR-OK; HT-OK

SURR - RECS OK

Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

MBLKS - CLEAN EXCEPT FOR Mn, DISS AT 0.56 Jug/L.

TBLK-10104- CLEAN

LCS/LCSD - RECS+RPDS

A "" FLAG IS ASSIGNED TO

April 16, 2010

Mark Bailey **RMT Greenville** 30 Patewood Drive Suite100, Patewood Plaza One Greenville, SC 296153535

DISSOLVED MANGANESE IN THE FOLLOWING SAMPLES BECAUSE OF COMPARABLE CONCENTRATION IN THE ASSOCIATED METHOD BLANK: BW-110, BW-109 AND SW-102

MS/MSD - DISS Mn - RPD OK; MS & MSD RECS NOMINALLY LOW. A-7 USED FOR MS & MSD. NO FLAG

RE: Project: 71243.61 MEDLEY FARMS

Pace Project No.: 4030145

A "j-" FLAG 13 ASSI THE ASSIGNED
BECAUSE PARENT CONC. >4X

Dear Mark Bailey:

- VOCS - RECS + RPDS OK : BATCH QC

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

- 504 - 3 MS/MSD PAIRS: 1 BATCH QC, A-7, MW-3D;

If you have any questions concerning this report, please feel free to contact me. ALL RPDs +RECs OK

Sincerely, FIELD DUP-DU-10103 IS A FIELD DUPLICATE OF MW-3D.

CALCULATABLE RPDS <10%. NO FLAGS

Kang Khang

kang.khang@pacelabs.com Project Manager

Enclosures

nelac



Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9

> Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

Green Bay Certification IDs

1241 Bellevue Street Green Bay, WI 54302 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 North Dakota Certification #: R-150 North Carolina Certification #: 503 California Certification #: 09268CA New York Certification #: 11887 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04168 Kentucky Certification #: 82 Illinois Certification #: 200050 Florida/NELAP Certification #: E87948 New York Certification #: 11888







SAMPLE SUMMARY

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4030145

4030145001 A-7 Water 03/26/10 12:10 04/02/10 10:00 4030145002 BW-108 Water 03/26/10 14:30 04/02/10 10:00 4030145003 SW-108 Water 03/26/10 11:40 04/02/10 10:00 4030145004 BW-110 Water 03/30/10 09:30 04/02/10 10:00 4030145005 SW-102 Water 03/30/10 10:45 04/02/10 10:00 4030145006 SW-103 Water 03/30/10 11:40 04/02/10 10:00 4030145007 SW-109 Water 03/30/10 14:50 04/02/10 10:00 4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145010 BW-202 Water 03/31/10 09:40 04/02/10 10:00
4030145003 SW-108 Water 03/26/10 11:40 04/02/10 10:00 4030145004 BW-110 Water 03/30/10 09:30 04/02/10 10:00 4030145005 SW-102 Water 03/30/10 10:45 04/02/10 10:00 4030145006 SW-103 Water 03/30/10 11:40 04/02/10 10:00 4030145007 SW-109 Water 03/30/10 14:50 04/02/10 10:00 4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145004 BW-110 Water 03/30/10 09:30 04/02/10 10:00 4030145005 SW-102 Water 03/30/10 10:45 04/02/10 10:00 4030145006 SW-103 Water 03/30/10 11:40 04/02/10 10:00 4030145007 SW-109 Water 03/30/10 14:50 04/02/10 10:00 4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145005 SW-102 Water 03/30/10 10:45 04/02/10 10:00 4030145006 SW-103 Water 03/30/10 11:40 04/02/10 10:00 4030145007 SW-109 Water 03/30/10 14:50 04/02/10 10:00 4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145006 SW-103 Water 03/30/10 11:40 04/02/10 10:00 4030145007 SW-109 Water 03/30/10 14:50 04/02/10 10:00 4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145007 SW-109 Water 03/30/10 14:50 04/02/10 10:00 4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145008 BW-109 Water 03/30/10 14:20 04/02/10 10:00 4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145009 SW-104 Water 03/30/10 16:20 04/02/10 10:00
4030145010 RW-202 Water 03/31/10 09 40 04/02/10 10 00
Vale: 03/31/10 03:40 04/02/10 10:00
4030145011 SW-3 Water 03/31/10 10:40 04/02/10 10:00
4030145012 MW-3D Water 03/31/10 11:30 04/02/10 10:00
4030145013 BW-1 Water 03/31/10 14:30 04/02/10 10:00
4030145014 SW-1 Water 03/31/10 13:40 04/02/10 10:00
4030145015 DU-10103 Water 03/31/10 00:00 04/02/10 10:00
930145016 TBLK-10104 Water 03/31/10 00:00 04/02/10 10:00







SAMPLE ANALYTE COUNT

Project:

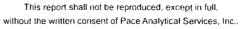
71243.61 MEDLEY FARMS

Pace Project No.: 4030145

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4030145001	A-7	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4030145002	BW-108	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4030145003	SW-108	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145004	BW-110	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145005	SW-102	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
)30145006	SW-103	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145007	SW-109	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145008	BW-109	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145009	SW-104	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145010	BW-202	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
030145011	SW-3	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
1030145012	MW-3D	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4030145013	BW-1	EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

Page 4 of 31









SAMPLE ANALYTE COUNT

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
· · · · · · · · · · · · · · · · · · ·		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4030145014	SW-1	EPA 60:10	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300.0	DDY	1	PASI-G
4030145015	DU-10103	EPA.6010	DLB	1	PASI-G
		EPA 8260	SMT	20	PASI-G
		EPA 300:0	DDY	1	PASI-G
4030145016	TBLK-10104	EPA 8260	SMT	20	PASI-G





Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

Method:

EPA 6010

Client:

Description: 6010 MET ICP, Dissolved **RMT - GREENVILLE**

Date:

April 16, 2010

General Information:

15 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

Haboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4030145

Method:

EPA 8260

Client:

Description: 8260 MSV

Date:

RMT - GREENVILLE April 16, 2010

General Information:

16 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

`urrogates:

surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:







(920)469-2436

PROJECT NARRATIVE

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

Method:

EPA 300.0

Client:

Description: 300 0 IC Anions 28 Days RMT - GREENVILLE

Date:

April 16, 2010

General Information:

15 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

aboratory Control Spike:

laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.





Project.

71243.61 MEDLEY FARMS

Pace Project No.: 4030145

Sample: A-7	Lab ID: 4	030145001	Collecte	d: 03/26/10	0 12:10	Received: 04	1/02/10 10:00 I	Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical M	lethod: EPA 6	010						
Manganese, Dissolved	3080 ug/	L	5.0	0.12	1		04/08/10 21:5	4 7439-96-5	P6
8260 MSV	Analytical M	lethod: EPA 8	260						
Acetone	5.0J ug/	L	20.0	5.0	1		04/07/10 14:2	0 67-64-1	
Benzene	ND ug/	L	1.0	0.41	1		04/07/10 14:2	0 71-43-2	
2-Butanone (MEK)	ND ug/	1 _	20.0	4.3	1		04/07/10 14:2	0 78-93-3	
Chloroethane	ND ug/	Ľ	1.0	0.97	1		04/07/10 14:2	0 75-00-3	
Chloroform	ND ug/	L	5.0	1.3	1		04/07/10 14:2	0 67-66-3	
Chloromethane	ND ug/	L	1.0	0.24	1		04/07/10 14:2	0 74-87-3	
1,1-Dichloroethane	ND ug/	L L	1.0	0.75	1		04/07/10 14:2	0 75-34-3	
1,2-Dichloroethane	2.3 ug/	L	1.0	0.36	1		04/07/10 14:2	0 107-06-2	
1,1-Dichloroethene	ND ug/	L L	1.0	0.57	1		04/07/10 14:2	0 75-35-4	
cis-1,2-Dichloroethene	7.6 ug/	Ľ	1.0	0.83	1		04/07/10 14.2	0 156-59-2	
trans-1,2-Dichloroethene	ND ug/	L L	1.0	0.89	1		04/07/10 14:2	0 156-60-5	
Methylene Chloride	ND ug/	L	1.0	0.43	1		04/07/10 14:2	0 75-09-2	
Tetrachloroethene	ND ug/	L	1.0	0.45	1		04/07/10 14:2	0 127-18-4	
1,1-Trichloroethane	ND ug/	'L	1.0	0.90	1		04/07/10 14:2	0 71-55-6	
,2-Trichloroethane	ND ug/	L	1.0	0.42	1		04/07/10 14:2	0 79-00-5	
ichloroethene	1.2 ug/	Ľ	1.0	0.48	1		04/07/10 14:2	0 79-01-6	
Vinyl chloride	5.9 ug/	Ľ	1.0	0.18	1		04/07/10 14:2	0 75-01-4	
4-Bromofluorobenzene (S)	82 %-		70-130		1		04/07/10 14:2	0 460-00-4	
Dibromofluoromethane (S)	81 %-		70-130		1		04/07/10 14:2	0 1868-53-7	
Toluene-d8 (S)	80 %-		70-130		1		04/07/10 14:2	0 2037-26-5	
300.0 IC Anions 28 Days	Analytical M	lethod: EPA 3	0.00						
Sulfate	4.7 mg	/L	4.0	2.0	1		04/13/10 13:2	1 14808-79-8	

te: 04/16/2010 04:17 PM

REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

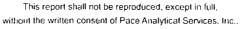
Pace Project No.: 4030145

Sample: BW-108	Lab ID:	4030145002	Collecte	d: 03/26/10	14:30	Received: 0-	4/02/10 10:00 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	108 u	ıg/L	5.0	0.12	1		04/08/10 22:05	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND u	ıg/L	20.0	5.0	1		04/07/10 18:12	67-64-1	
Benzene	ND u	ıg/L	1.0	0.41	1		04/07/10 18:12	71-43-2	
2-Bulanone (MEK)	ND u	ıg/L	20.0	4.3	1		04/07/10 18:12	78-93-3	
Chloroethane	ND u	ıg/L	1.0	0.97	1		04/07/10 18:12	75-00-3	
Chloroform	ND u	ıg/L	5.0	1.3	1		04/07/10 18:12	67-66-3	
Chloromethane	ND u	ıg/L	1.0	0.24	1		04/07/10 18:12	74-87-3	
1,1-Dichloroethane	ND u	ıg/L	1.0	0 75	1		04/07/10 18:12	75-34-3	
1,2-Dichloroethane	ND u	ıg/L	1.0	0.36	1		04/07/10 18:12	107-06-2	
1,1-Dichloroethene	ND u	ig/L	1.0	0.57	1		04/07/10 18:12	75-35-4	
cis-1,2-Dichloroethene	ND u	ig/L	1.0	0.83	1		04/07/10 18:12	156-59-2	
trans-1,2-Dichloroethene	ND u	ig/L	1.0	0.89	1		04/07/10 18:12	156-60-5	
Methylene Chloride	ND u	ig/L	1.0	0.43	1		04/07/10 18:12	75-09-2	
Tetrachloroethene	1.3 u	ıg/L	1.0	0.45	1		04/07/10 18:12	127-18-4	
1.1-Trichloroethane	ND u	ig/L	1.0	0.90	1		04/07/10 18:12	71-55-6	
,2-Trichloroethane	ND u	ıg/L	1.0	0.42	1		04/07/10 18:12	79-00-5	
richloroethene	1.6 u	ig/L	1.0	0 48	1		04/07/10 18:12	79-01-6	
Vinyl chloride	ND u		1.0	0.18	1		04/07/10 18:12	75-01-4	
4-Bromofluorobenzene (S)	84 %	% -	70-130		1		04/07/10 18:12	460-00-4	
Dibromofluoromethane (S)	82 %	% -	70-130		1		04/07/10 18:12	1868-53-7	
Toluene-d8 (S)	83 %	% -	70-130		1		04/07/10 18:12	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	5.6 n	ng/L	4.0	2.0	1		04/13/10 13:58	14808-79-8	

te: 04/16/2010 04:17 PM

REPORT OF LABORATORY ANALYSIS

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Project: 71243.61 MEDLEY FARMS

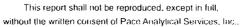
Pace Project No.: 4030145

Sample: SW-108	Lab ID:	4030145003	Collecte	d: 03/26/10	0 11:40	Received: 04	4/02/10 10:00 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical I	Method: EPA 6	6010						
Manganese, Dissolved	16.4 ug	g/L	5.0	0.12	1		04/08/10 22:09	7439-96-5	
8260 MSV	Analytical I	Method. EPA 8	3260						
Acetone	ND uç	g/L	20.0	5 0	1		04/07/10 14:43	67-64-1	
Benzene	ND uç	g/L	1.0	0.41	1		04/07/10 14 43	71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4 3	1		04/07/10 14:43	78-93-3	
Chloroethane	ND ug	g/L	1.0	0.97	1		04/07/10 14:43	75-00-3	
Chloroform	1.6J ug	g/L	5.0	1.3	1		04/07/10 14:43	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		04/07/10 14:43	74-87-3	
1.1-Dichloroethane	ND ug	g/L	10	0.75	1		04/07/10 14:43	75-34-3	
1.2-Dichloroethane	ND ug	g/L,	1 0	0.36	1		04/07/10 14.43	107-06-2	
1.1-Dichloroethene	ND ug	g/L	1.0	0.57	1		04/07/10 14:43	75-35-4	
cis-1,2-Dichloroethene	1.7 ug	y/L	10	0.83	1		04/07/10 14:43	156-59-2	
trans-1,2-Dichloroethene	ND ug	: ₃ /L	1.0	0.89	1		04/07/10 14:43	156-60-5	
Methylene Chloride	ND ug	g/L	1.0	0.43	1		04/07/10 14:43	75-09-2	
Tetrachloroethene	20.5 ug	g/L	1.0	0.45	1		04/07/10 14:43	127-18-4	
1.1-Trichloroethane	ND ug		1.0	0.90	1		04/07/10 14:43	71-55-6	
.2-Trichloroethane	ND ug	g/L	1.0	0.42	1		04/07/10 14:43	79-00-5	
ichloroethene	21.0 ug	g/L	1.0	0.48	1		04/07/10 14:43	79-01-6	
Vinyl chloride	ND ug	g/L	1.0	0.18	1		04/07/10 14:43	75-01-4	
4-Bromofluorobenzene (S)	82 %		70-130		1		04/07/10 14:43	460-00-4	
Dibromofluoromethane (S)	81 %	,-	70-130		1		04/07/10 14:43	1868-53-7	
Toluene-d8 (S)	84 %	. -	70-130		1		04/07/10 14:43	2037-26-5	
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	800.0						
Sulfate	3.1J m	g/L	4.0	2.0	1		04/13/10 14:10	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

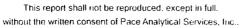
Pace Project No.: 4030145

Sample: BW-110	Lab ID: 40301	45004 Collecte	d: 03/30/10	0 09:30	Received: 04	4/02/10 10:00 M	atrix: Water	
Parameters	Results Uni	its PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Metho	d: EPA 6010						
Manganese, Dissolved	2.7J ug/L	5.0	0.12	1		04/08/10 22:13	7439-96-5	В
8260 MSV	Analytical Metho	d: EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		04/07/10 15:06	67-64-1	
Benzene	ND ug/L	1.0	0.41	1		04/07/10 15.06	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		04/07/10 15:06	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		04/07/10 15:06	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		04/07/10 15:06	67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		04/07/10 15:06	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		04/07/10 15:06	75-34-3	
1.2-Dichloroethane	ND ug/L	1.0	0.36	1		04/07/10 15:06	107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		04/07/10 15.06	75-35-4	
cis-1.2-Dichloroethene	ND ug/L	1.0	0.83	1		04/07/10 15:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		04/07/10 15:06	156-60-5	
Methylene Chloride	ND ug/L	1.0	0 43	1		04/07/10 15:06	75-09-2	
Tetrachloroethene	0.47J ug/L	1.0	0.45	1		04/07/10 15:06	127-18-4	
1.1-Trichloroethane	ND ug/L	1.0	0.90	1		04/07/10 15:06	71-55-6	
.2-Trichloroethane	ND ug/L	1.0	0.42	1		04/07/10 15:06	79-00-5	
richloroethene	1.6 ug/L	1.0	0.48	1		04/07/10 15:06	79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		04/07/10 15:06	75-01-4	
4-Bromofluorobenzene (S)	82 %-	70-130		1		04/07/10 15:06	460-00-4	
Dibromofluoromethane (S)	82 %-	70-130		1		04/07/10 15:06	1868-53-7	
Toluene-d8 (S)	83 %-	70-130		1		04/07/10 15.06	2037-26-5	
300.0 IC Anions 28 Days	Analytical Metho	d: EPA 300.0						
Sulfate	7.7 mg/L	4.0	2.0	1		04/13/10 14.22	14808-79-8	

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(920)469-2436



04/13/10 14:34 14808-79-8



ANALYTICAL RESULTS

Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4030145

Sample: SW-102	Lab ID:	4030145005	Collected	d: 03/30/10	10:45	Received: 04	4/02/10 10:00 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical I	Method: EPA 6	010						
Manganese, Dissolved	3.2J uç	3/L	5.0	0.12	1		04/08/10 22:17	7439-96-5	В
8260 MSV	Analytical I	Method: EPA 8	260						
Acetone	ND uç	₃ /L	20.0	5.0	1		04/07/10 15:30	67-64-1	
Benzene	ND ug	3/L	1.0	0.41	1		04/07/10 15:30	71-43-2	
2-Butanone (MEK)	ND ug	3/L	20.0	4.3	1		04/07/10 15:30	78-93-3	
Chloroethane	ND uç	g/L	1.0	0.97	1		04/07/10 15:30	75-00-3	
Chloroform	ND ug	3/L	5.0	1.3	1		04/07/10 15:30	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		04/07/10 15:30	74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		04/07/10 15:30	75-34-3	
1,2-Dichloroethane	ND ug	3/L	1.0	0.36	1		04/07/10 15:30	107-06-2	
1,1-Dichloroethene	ND ug	g/L	1.0	0.57	1		04/07/10 15.30	75-35-4	
cis-1,2-Dichloroethene	ND ug	g/L	1.0	0.83	1		04/07/10 15:30	156-59-2	
trans-1.2-Dichloroethene	ND ug	g/L	1.0	0.89	1		04/07/10 15:30	156-60-5	
Methylene Chloride	ND ug	9/L	1.0	0.43	1		04/07/10 15.30	75-09-2	
Tetrachloroethene	ND ug	g/L	1.0	0.45	1		04/07/10 15:30	127-18-4	
1,1-Trichloroethane	ND ug	g/L	1.0	0.90	1		04/07/10 15.30	71-55-6	
.2-Trichloroethane	ND ug	g/L	1.0	0.42	1		04/07/10 15:30	79-00-5	
richloroethene	0.54J ug	g/L	1.0	0.48	1		04/07/10 15.30	79-01-6	
Vinyl chloride	ND ug	g/L	1.0	0.18	1		04/07/10 15:30	75-01-4	
4-Bromofluorobenzene (S)	81 %	-	70-130		1		04/07/10 15.30	460-00-4	
Dibromofluoromethane (S)	81 %	-	70-130		1		04/07/10 15:30	1868-53-7	
Toluene-d8 (S)	84 %	-	70-130		1		04/07/10 15:30	2037-26-5	

4.0

2.0 1

Analytical Method: EPA 300.0

4.4 mg/L

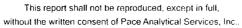
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300.0 IC Anions 28 Days

Sulfate

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Project:

71243.61 MEDLEY FARMS

ND mg/L

Pace Project No.: 4030145

Sample: SW-103	Lab ID: 403	0145006 Collected	I: 03/30/16	0 11:40	Received: 04	4/02/10 10:00 M	atrix: Water	
Parameters	Results U	Inits PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Meth	nod: EPA 6010						
Manganese, Dissolved	33.7 ug/L	5.0	0.12	1		04/08/10 22:21	7439-96-5	
8260 MSV	Analytical Meth	nod: EPA 8260						
Acetone	ND ug/L	20.0	5.0	1		04/07/10 15:53	67-64-1	
Benzene	ND ug/L	1.0	0.41	1		04/07/10 15:53	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		04/07/10 15:53	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		04/07/10 15:53	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		04/07/10 15:53	67-66-3	
Chloromethane	ND ug/L	10	0.24	1		04/07/10 15:53	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		04/07/10 15:53	75-34-3	
1,2-Dichloroethane	ND ug/L	10	0.36	1		04/07/10 15:53	107-06-2	
1,1-Dichloroethene	ND ug/L	10	0.57	1		04/07/10 15:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		04/07/10 15:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		04/07/10 15:53	156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		04/07/10 15:53	75-09-2	
Tetrachloroethene	ND ug/L	1.0	0.45	1		04/07/10 15:53	127-18-4	
1.1-Trichloroethane	ND ug/L	1.0	0.90	1		04/07/10 15:53	71-55-6	
.2-Trichloroethane	ND ug/L	1.0	0.42	1		04/07/10 15:53	79-00-5	
richloroethene	ND ug/L	10	0.48	1		04/07/10 15:53	79-01-6	
Vinyl chloride	ND ug/L	10	0.18	1		04/07/10 15:53	75-01-4	
4-Bromofluorobenzene (S)	81 %-	70-130		1		04/07/10 15:53	460-00-4	
Dibromofluoromethane (S)	82 %-	70-130		1		04/07/10 15:53	1868-53-7	
Toluene-d8 (S)	76 %-	70-130		1		04/07/10 15:53	2037-26-5	
300.0 IC Anions 28 Days	Analytical Meth	nod: EPA 300.0						

4.0

2.0 1

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Sulfate

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Project:

71243.61 MEDLEY FARMS

2.1J mg/L

Pace-Project No.: 4030145

Sample: SW-109	Lab ID: 4	1030145007	Collected	d: 03/30/10	0 14:50	Received: 02	1/02/10 10:00 M	atrix: Water	
Parameters	Results	Units	PQE _	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010:MET ICP; Dissolved	Analytical M	Method: EPA 6	010						
Manganese, Dissolved	17.0 ug/	/L	5.0	0.12	1		04/08/10 22:33	7439-96-5	
8260 ¹ MSV	Analytical M	Method: EPA 8	260						
Acetone	ND ug	/L	20.0	5.0	1		04/07/10 18:36	67-64-1	
Benzene-	ND ug	/L	1.0	0:41	1		04/07/10 18:36	71-43-2	
2-Butanone (MEK)	ND ug	/L	20.0	4'.3	1		04/07/10 18:36	78-93-3	
Chloroethane	ND ug	/L	1.0.	0:97	1		04/07/10 18:36	75-00-3	
Chloroform:	ND ug	/Ĺ	5.0	1.3	1		04/07/10 18:36	67-66-3	
Chloromethane	ND rug	/L	1.0.	0.24	1		04/07/10 18:36	74-87-3	
1,1-Dichloroethane	ND ug	/L	1.0	0.75	1		04/07/10 18:36	75-34-3	
1,2-Dichloroethane	ND ug	/L	1.0	0.36	1		04/07/10 18:36	107-06-2	
1,1-Dichloroethene	ND ug	/L	1.0	0.57	1		04/07/10 18:36	75-35-4	
cis-1,2-Dichloroethene	ND ug	/L	1.0:	0.83	1		04/07/10 18:36	156-59-2	
trans-1,2-Dichloroethene	ND ug	/L	1.0	0.89	1		04/07/10 18:36	156-60-5	
Methylene Chloride	ND ug	/L	1.0	0.43	1		04/07/10 18:36	75-09-2	
Tetrachloroethene.	ND ug	/L	1.0	0.45	1		04/07/10 18:36	127-18-4	
1,1-Trichloroethane	ND ug	/L	1.0	0.90	1		04/07/10 18:36	71-55-6	
1,2-Trichloroethane	ND ug	/L	1.0	0.42	1		04/07/10 18:36	79-00-5	
.richloroethene	ND ug	/L	1.0.	0.48	1		04/07/10 18:36	79-01-6	
Vinylichloride	ND ug	/L	1.0	0.18	1		04/07/10 18:36	75-01-4	
4-Bromofluorobenzene (S)	82 %-	-	70-130		1		04/07/10 18:36	460-00-4	
Dibromofluoromethane (S)	83 %-		70-130.		1		04/07/10 18:36	1868-53-7	
Toluene-d8:(S)	75 %-		70-130		1		04/07/10 18:36	2037-26-5	
300.0 IC Anions 28 Days	Analytical N	Method: EPA 3	0.00						

4.0

2.0 1

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Sulfate

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Project:

71243.61 MEDLEY FARMS

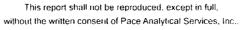
Pace Project No.: 4030145

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Sample: BW-109	Lab ID:	4030145008	Collecte	d: 03/30/10	14:20	Received: 04	1/02/10 10:00 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical I	Method: EPA 6	6010						
Manganese, Dissolved	0.69J ug	g/L	5.0	0.12	1		04/08/10 22:37	7439-96-5	В
8260 MSV	Analytical I	Method: EPA 8	3260						
Acetone	ND ug	g/L	20.0	5.0	1		04/07/10 16:16	67-64-1	
Benzene	ND ug	g/L	1.0	0.41	1		04/07/10 16:16	71-43-2	
2-Butanone (MEK)	ND ug	g/L	20.0	4.3	1		04/07/10 16:16	78-93-3	
Chloroethane	ND uç	g/L	1.0	0.97	1		04/07/10 16:16	75-00-3	
Chloroform	ND ug	g/L	5.0	1.3	1		04/07/10 16:16	67-66-3	
Chloromethane	ND ug	g/L	1.0	0.24	1		04/07/10 16:16	74-87-3	
1,1-Dichloroethane	ND ug	g/L	1.0	0.75	1		04/07/10 16.16	75-34-3	
1,2-Dichloroethane	ND ug	g/L	1.0	0.36	1		04/07/10 16:16	107-06-2	
1,1-Dichloroethene	ND uç	g/L	1.0	0.57	1		04/07/10 16:16	75-35-4	
cis-1,2-Dichloroethene	ND ug	g/L	1.0	0.83	1		04/07/10 16:16	156-59-2	
trans-1,2-Dichloroethene	ND ug	g/L	1.0	0.89	1		04/07/10 16:16	156-60-5	
Methylene Chloride	ND uç	g/L	1.0	0.43	1		04/07/10 16:16	75-09-2	
Tetrachloroethene	ND ug	g/L	1.0	0.45	1		04/07/10 16:16	127-18-4	
1,1-Trichloroethane	ND ug	g/L	1.0	0.90	1		04/07/10 16:16	71-55-6	
,2-Trichloroethane	ND ug	g/L	1.0	0.42	1		04/07/10 16:16	79-00-5	
richloroethene	ND ug	g/L	1.0	0.48	1		04/07/10 16:16	79-01-6	
Vinyl chloride	ND ug	g/L	1.0	0.18	1		04/07/10 16:16	75-01-4	
4-Bromofluorobenzene (S)	83 %)-	70-130		1		04/07/10 16:16	460-00-4	
Dibromofluoromethane (S)	80 %	ı -	70-130		1		04/07/10 16:16	1868-53-7	
Toluene-d8 (S)	84 %	,-	70-130		1		04/07/10 16:16	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0						
Sulfate	2.2 J m	g/L	4.0	2.0	1		04/13/10 15:11	14808-79-8	

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Project:

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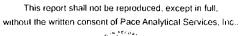
Pace Project No.: 4030145

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Sample: SW-104	Lab ID: 40301450	009 Collected	d: 03/30/10	16:20	Received: 04	4/02/10 10:00 M	atrix: Water	
Paramelers	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	PA 6010						
Manganese, Dissolved	4.6J ug/L	5.0	0.12	1		04/08/10 22:41	7439-96-5	В
8260 MSV	Analytical Method: E	PA 8260						
Acetone	ND ug/L	20.0	5.0	1		04/07/10 16:39	67-64-1	
Benzene	ND ug/L	1.0	0.41	1		04/07/10 16:39	71-43-2	
2-Butanone (MEK)	ND ug/L	20.0	4.3	1		04/07/10 16:39	78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		04/07/10 16:39	75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		04/07/10 16:39	67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		04/07/10 16:39	74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		04/07/10 16:39	75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		04/07/10 16:39	107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		04/07/10 16:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		04/07/10 16:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		04/07/10 16:39	156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		04/07/10 16:39	75-09-2	
Tetrachloroethene	ND ug/L	1.0	0.45	1		04/07/10 16:39	127-18-4	
1,1-Trichtoroethane	ND ug/L	1.0	0.90	1		04/07/10 16:39	71-55-6	
2-Trichloroethane	ND ug/L	1.0	0.42	1		04/07/10 16:39	79-00-5	
richloroethene	ND ug/L	1.0	0.48	1		04/07/10 16:39	79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		04/07/10 16:39	75-01-4	
4-Bromofluorobenzene (S)	81 %-	70-130		1		04/07/10 16:39	460-00-4	
Dibromofluoromethane (S)	83 %-	70-130		1		04/07/10 16:39	1868-53-7	
Toluene-d8 (S)	83 %-	70-130		1		04/07/10 16:39	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: E	EPA 300.0						
Sulfate	3.4J mg/L	4.0	2.0	1		04/12/10 23:55	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

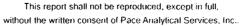
Pace Project No.: 4030145

Sample: BW-202	Lab ID: 40301450	Collecte	d: 03/31/10	0 09:40	Received: 04	1/02/10 10:00	Matrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: E	PA 6010						
Manganese, Dissolved	23.2 ug/L	5 0	0.12	1		04/08/10 22:4	5 7439-96-5	
8260 MSV	Analytical Method: E	PA 8260						
Acetone	ND ug/L	20.0	5.0	1		04/07/10 17:0	3 67-64-1	
Benzene	ND ug/L	1.0	0.41	1		04/07/10 17:0	3 71-43-2	
2-Butanone (MEK)	ND ug/L	20 0	4.3	1		04/07/10 17:0	3 78-93-3	
Chloroethane	ND ug/L	1.0	0.97	1		04/07/10 17:0	3 75-00-3	
Chloroform	ND ug/L	5.0	1.3	1		04/07/10 17:0	3 67-66-3	
Chloromethane	ND ug/L	1.0	0.24	1		04/07/10 17:0	3 74-87-3	
1,1-Dichloroethane	ND ug/L	1.0	0.75	1		04/07/10 17:0	3 75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.36	1		04/07/10 17:0	3 107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.57	1		04/07/10 17:0	3 75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.83	1		04/07/10 17:0	3 156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.89	1		04/07/10 17:0	3 156-60-5	
Methylene Chloride	ND ug/L	1.0	0.43	1		04/07/10 17:0	3 75-09-2	
Tetrachloroethene	9.1 ug/L	1.0	0.45	1		04/07/10 17:0	3 127-18-4	
1,1-Trichloroethane	ND ug/L	1.0	0.90	1		04/07/10 17:0	3 71-55-6	
,2-Trichloroethane	ND ug/L	1.0	0.42	1		04/07/10 17:0	3 79-00-5	
richloroethene	4.6 ug/L	1.0	0.48	1		04/07/10 17:0	3 79-01-6	
Vinyl chloride	ND ug/L	1.0	0.18	1		04/07/10 17:0	3 75-01-4	
4-Bromofluorobenzene (S)	83 %-	70-130		1		04/07/10 17:0	3 460-00-4	
Dibromofluoromethane (S)	84 %-	70-130		1		04/07/10 17:0	3 1868-53-7	
Toluene-d8 (S)	84 %-	70-130		1		04/07/10 17:0	3 2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: E	PA 300.0						
Sulfate	4.4 mg/L	4.0	2.0	1		04/13/10 00:0	8 14808-79-8	

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Project:

71243.61 MEDLEY FARMS

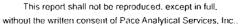
Pace Project No.: 4030145

Sample: SW-3	Lab ID:	4030145011	Collecte	d: 03/31/10	0 10:40	Received: 04	4/02/10 10:00 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	103 uç	g/L	5.0	0.12	1		04/08/10 22:49	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND ug	g/L	50.0	12.5	2.5		04/07/10 19:22	67-64-1	
Benzene	ND ug	g/L	2.5	1.0	2.5		04/07/10 19.22	71-43-2	
2-Butanone (MEK)	ND ug	g/L	50.0	10.8	2.5		04/07/10 19:22	78-93-3	
Chloroethane	ND ug	g/L	2.5	2.4	2.5		04/07/10 19:22	75-00-3	
Chloroform	ND ug	g/L	12.5	3.2	2.5		04/07/10 19:22	67-66-3	
Chloromethane	ND ug	g/L	2.5	0.60	2.5		04/07/10 19:22	74-87-3	
1.1-Dichloroethane	ND ug	g/L	2.5	1.9	2.5		04/07/10 19:22	75-34-3	
1.2-Dichloroethane	ND ug	g/L	2.5	0.90	2.5		04/07/10 19:22	107-06-2	
1,1-Dichloroethene	ND ug	g/L	2.5	1.4	2.5		04/07/10 19:22	75-35-4	
cis-1,2-Dichloroethene	3.2 ug		2.5	2.1	2.5		04/07/10 19:22	156-59-2	
trans-1,2-Dichloroethene	ND ug	g/L	2.5	2.2	2.5		04/07/10 19:22	156-60-5	
Methylene Chloride	ND ug	g/L	2.5	1.1	2.5		04/07/10 19:22	75-09-2	
Tetrachloroethene	363 ug	g/L	2.5	1.1	2.5		04/07/10 19:22	127-18-4	
1.1-Trichloroethane	ND ug		2.5	2.2	2.5		04/07/10 19:22	71-55-6	
,2-Trichloroethane	ND us	g/L	2.5	10	2.5		04/07/10 19:22	79-00-5	
. richloroethene	194 ug	g/L	2.5	1.2	2.5		04/07/10 19:22	79-01-6	
Vinyl chloride	ND ug		2.5	0.45	2.5		04/07/10 19:22	75-01-4	
4-Bromofluorobenzene (S)	84 %		70-130		2.5		04/07/10 19:22	460-00-4	
Dibromofluoromethane (S)	83 %	y -	70-130		2.5		04/07/10 19:22	1868-53-7	
Toluene-d8 (S)	75 %) -	70-130		2.5		04/07/10 19:22	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	2.1J m	g/L	4.0	2.0	1		04/13/10 17:02	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

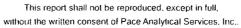
Pace Project No.: 4030145

Sample: MW-3D	Lab ID:	4030145012	Collected: 03/31/10 11:30			Received: 04			
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese. Dissolved	2740 u	g/L	5.0	0.12	1		04/08/10 22:53	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND u	g/L	20.0	5.0	1		04/08/10 08:04	67-64-1	
Benzene	ND u	g/L	1.0	0.41	1		04/08/10 08:04	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		04/08/10 08:04	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		04/08/10 08:04	75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1		04/08/10 08:04	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		04/08/10 08:04	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		04/08/10 08:04	75-34-3	
1,2-Dichloroethane	1.2 u	-	1.0	0.36	1		04/08/10 08:04	107-06-2	
1.1-Dichloroethene	ND u	g/L	1.0	0.57	1		04/08/10 08:04	75-35-4	
cis-1,2-Dichloroethene	10.3 υ	g/L	1.0	0.83	1		04/08/10 08:04	156-59-2	
trans-1,2-Dichloroethene	ND u		1.0	0.89	1		04/08/10 08:04	156-60-5	
Methylene Chloride	ND u		1.0	0.43	1		04/08/10 08:04	75-09-2	
Tetrachloroethene	ND u	g/L	1.0	0.45	1		04/08/10 08:04	127-18-4	
1,1-Trichloroethane	ND u	g/L	1.0	0.90	1		04/08/10 08:04	71-55-6	
,2-Trichloroethane	0.64J u	g/L	1.0	0.42	1		04/08/10 08:04	79-00-5	
ichloroethene	2.4 u	-	1.0	0 48	1		04/08/10 08:04	79-01-6	
Vinyl chloride	11.4 u	g/L	1.0	0.18	1		04/08/10 08:04	75-01-4	
4-Bromofluorobenzene (S)	79 %		70-130		1		04/08/10 08:04	460-00-4	
Dibromofluoromethane (S)	82 %	ó-	70-130		1		04/08/10 08:04	1868-53-7	
Toluene-d8 (S)	86 %	ó-	70-130		1		04/08/10 08:04	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0						
Sulfate	7.5 m	ng/L	4.0	2.0	1		04/13/10 17:14	14808-79-8	

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(920)469-2436



ANALYTICAL RESULTS

Project: 71243.61 MEDLEY FARMS

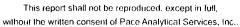
Pace Project No.: 4030145

Sample: BW-1	Lab ID: 4	1030145013	Collecte	d: 03/31/10	14:30	Received: 04	4/02/10 10:00 M	latrix: Water	
Parameters	Results	Units	PQL .	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical M	/lethod: EPA 6	010						
Manganese, Dissolved	776 ug	/L	5.0	0.12	1		04/08/10 22:57	7439-96-5	
8260 MSV	Analytical M	Method: EPA 8	260						
Acetone	ND ug	/L	20.0	5.0	1		04/07/10 17:26	67-64-1	
Benzene	ND ug	/L	1.0	0.41	1		04/07/10 17:26	71-43-2	
2-Bulanone (MEK)	ND ug	/L	20.0	4.3	1		04/07/10 17:26	78-93-3	
Chloroethane	ND ug	/L	1.0	0.97	1		04/07/10 17:26	75-00-3	
Chloroform	ND ug	/L	5.0	1.3	1		04/07/10 17:26	67-66-3	
Chloromethane	ND ug	/L	1.0	0.24	1		04/07/10 17:26	74-87-3	
1,1-Dichloroethane	ND ug	/L	10	0.75	1		04/07/10 17:26	75-34-3	
1.2-Dichloroethane	ND ug	/L	1.0	0.36	1		04/07/10 17:26	107-06-2	
1.1-Dichloroethene	ND ug		10	0.57	1		04/07/10 17:26	75-35-4	
cis-1,2-Dichloroethene	ND ug	/L	1.0	0.83	1		04/07/10 17:26	156-59-2	
trans-1,2-Dichloroethene	ND ug	/L	10	0.89	1		04/07/10 17:26	156-60-5	
Methylene Chloride	ND ug		1 0	0.43	1		04/07/10 17:26	75-09-2	
Tetrachloroethene	ND ug		10	0.45	1		04/07/10 17:26	127-18-4	
1,1-Trichloroethane	ND ug		1.0	0.90	1		04/07/10 17:26	71-55-6	
.2-Trichloroethane	ND ug	/L	1.0	0.42	1		04/07/10 17:26	79-00-5	
richloroethene	ND ug		1 0	0.48	1		04/07/10 17:26	79-01-6	
Vinyl chloride	ND ug	/L	1.0	0.18	1		04/07/10 17:26	75-01-4	
4-Bromofluorobenzene (S)	86 %-		70-130		1		04/07/10 17:26	460-00-4	
Dibromofluoromethane (S)	82 %-		70-130		1		04/07/10 17:26	1868-53-7	
Toluene-d8 (S)	84 %-		70-130		1		04/07/10 17:26	2037-26-5	
300.0 IC Anions 28 Days	Analytical N	Method: EPA 3	0.00						
Sulfate	2.2J mg	j/L	4.0	2.0	1		04/13/10 17:50	14808-79-8	

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Project:

71243.61 MEDLEY FARMS

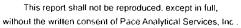
Pace Project No.: 4030145

Sample: SW-1	Lab ID:	4030145014	Collecte	d: 03/31/10	13.40	Received: 04	4/02/10 10:00 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	6010						
Manganese, Dissolved	8.3 u	g/L	5.0	0.12	1		04/08/10 23:01	7439-96-5	
8260 MSV	Analytical	Method: EPA 8	3260						
Acetone	ND u	g/L	20.0	5.0	1		04/07/10 17:49	67-64-1	•
Benzene	ND u	g/L	1.0	0.41	1		04/07/10 17:49	71-43-2	
2-Butanone (MEK)	ND u	g/L	20.0	4.3	1		04/07/10 17:49	78-93-3	
Chloroethane	ND u	g/L	1.0	0.97	1		04/07/10 17:49	75-00-3	
Chloroform	ND u	g/L	5.0	1.3	1		04/07/10 17:49	67-66-3	
Chloromethane	ND u	g/L	1.0	0.24	1		04/07/10 17:49	74-87-3	
1,1-Dichloroethane	ND u	g/L	1.0	0.75	1		04/07/10 17:49	75-34-3	
1,2-Dichloroethane	ND u	ıg/L	1.0	0.36	1		04/07/10 17:49	107-06-2	
1,1-Dichloroethene	ND u	ıg/L	1.0	0.57	1		04/07/10 17:49	75-35-4	
cis-1,2-Dichloroethene	ND u	ıg/L	1.0	0.83	1		04/07/10 17:49	156-59-2	
trans-1,2-Dichloroethene	ND u	ıg/L	1.0	0.89	1		04/07/10 17:49	156-60-5	
Methylene Chloride	ND u	ıg/L	1.0	0.43	1		04/07/10 17.49	75-09-2	
Tetrachloroethene	ND u	ıg/L	1.0	0.45	1		04/07/10 17:49	127-18-4	
1,1-Trichloroethane	ND u	ıg/L	10	0.90	1		04/07/10 17:49	71-55-6	
,2-Trichloroethane	ND u	ıg/L	1.0	0.42	1		04/07/10 17:49	79-00-5	
ichloroethene	ND u	ıg/L	1.0	0.48	1		04/07/10 17:49	79-01-6	
Vinyl chloride	ND u	ıg/L	1.0	0.18	1		04/07/10 17:49	75-01-4	
4-Bromofluorobenzene (S)	80 %	/o-	70-130		1		04/07/10 17:49	460-00-4	
Dibromofluoromethane (S)	82 %	/o-	70-130		1		04/07/10 17:49	1868-53-7	
Toluene-d8 (S)	81 %	′o-	70-130		1		04/07/10 17:49	2037-26-5	
300.0 IC Anions 28 Days	Analytical	Method EPA	300.0						
Sulfate	ND n	ng/L	4.0	2.0	1		04/13/10 18:03	14808-79-8	

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Project:

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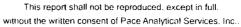
Pace Project No.: 4030145

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Sample: DU-10103	Lab ID: 40	030145015	Collected	d: 03/31/10	00:00	Received: 04	1/02/10 10:00	Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical M	ethod: EPA 6	010						
Manganese, Dissolved	2740 ug/l	L	5.0	0.12	1		04/08/10 23:0	05 7439-96-5	
8260 MSV	Analytical M	ethod: EPA 8	260						
Acetone	ND ug/l	L	20.0	5.0	1		04/07/10 18:5	59 67-64-1	
Benzene	ND ug/l	L	1.0	0.41	1		04/07/10 18:3	59 71-43-2	
2-Butanone (MEK)	ND ug/l	L	20.0	4.3	1		04/07/10 18:5	59 78 -93 -3	
Chloroethane	ND ug/l	L	1.0	0.97	1		04/07/10 18:	59 75-00-3	
Chloroform	ND ug/l	L_	5.0	1.3	1		04/07/10 18:	59 67-66-3	
Chloromethane	ND ug/l	L	1.0	0 24	1		04/07/10 18:	59 74-87-3	
1,1-Dichloroethane	ND ug/l	L	1.0	0.75	1		04/07/10 18:	59 75-34-3	
1,2-Dichloroethane	1.4 ug/l	L	1.0	0 36	1		04/07/10 18:	59 107-06-2	
1.1-Dichloroethene	ND ug/l	L	1.0	0.57	1		04/07/10 18:	59 75-35-4	
cis-1,2-Dichloroethene	11.0 ug/l	L	10	0.83	1		04/07/10 18:	59 156-59-2	
trans-1,2-Dichloroethene	ND ug/l	L	1.0	0.89	1		04/07/10 18:	59 156-60-5	
Methylene Chloride	ND ug/l	L	1.0	0.43	1		04/07/10 18:	59 75-09-2	
Tetrachloroethene	ND ug/l	L	1.0	0.45	1		04/07/10 18:	59 127-18-4	
1,1-Trichloroethane	ND ug/l	L	1.0	0.90	1		04/07/10 18:	59 71-55-6	
,2-Trichloroethane	ND ug/l	L	1.0	0.42	1		04/07/10 18:	59 79-00-5	
richloroethene	2.3 ug/l	L	1.0	0.48	1		04/07/10 18:	59 79-01-6	
Vinyl chloride	12.3 ug/l	L	1.0	0.18	1		04/07/10 18:	59 75-01-4	
4-Bromofluorobenzene (S)	83 %-		70-130		1		04/07/10 18:	59 460-00-4	
Dibromofluoromethane (S)	84 %-		70-130		1		04/07/10 18:	59 1868-53-7	
Toluene-d8 (S)	83 %-		70-130		1		04/07/10 18:	59 2037-26-5	
300.0 IC Anions 28 Days	Analytical M	ethod: EPA 3	0.00						
Sulfate	7.7 mg/	/L_	4.0	2.0	1		04/13/10 18:	15 14808-79-8	

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Project:

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Pace Project No.: 4030145

Sample: TBLK-10104	Lab ID:	4030145016	Collected: 03/31/10 00:00			Received: 04/02/10 10:00 Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV	Analytical N	Method [.] EPA 8	260							
Acetone	ND ug	/L	20.0	5.0	1		04/07/10 13:56	67-64-1		
Benzene	ND ug	_l /L	1.0	0.41	1		04/07/10 13:56	71-43-2		
2-Butanone (MEK)	ND ug	/L	20.0	4.3	1		04/07/10 13:56	78-93-3		
Chloroethane	ND ug	ı/L	1.0	0.97	1		04/07/10 13:56	75-00-3		
Chloroform	ND ug		5.0	1.3	1		04/07/10 13:56	67-66-3		
Chloromethane	ND ug		1.0	0.24	1		04/07/10 13:56	74-87-3		
1.1-Dichloroethane	ND ug	ı/L	1.0	0.75	1		04/07/10 13:56	75-34-3		
1,2-Dichloroethane	ND ug	ı/L	1.0	0.36	1		04/07/10 13:56	107-06-2		
1.1-Dichloroethene	ND ug	ı/L	1.0	0.57	1		04/07/10 13:56	75-35-4		
cis-1,2-Dichloroethene	ND ug	ı/L.	1.0	0.83	1		04/07/10 13:56	156-59-2		
trans-1,2-Dichloroethene	ND ug	ı/L	1.0	0.89	1		04/07/10 13:56	156-60-5		
Methylene Chloride	ND ug	ı/L	1.0	0.43	1		04/07/10 13:56	75-09-2		
Tetrachloroethene	ND ug	ı/L	1.0	0.45	1		04/07/10 13:56	127-18-4		
1,1,1-Trichloroethane	ND ug	ı/L	1.0	0.90	1		04/07/10 13:56	71-55-6		
1,1,2-Trichloroethane	ND ug	ı/L	1.0	0.42	1		04/07/10 13:56	79-00-5		
Trichloroethene	ND ug	ı/L	1.0	0.48	1		04/07/10 13:56	79-01-6		
'4nyl chloride	ND ug	ı/L	1.0	0.18	1		04/07/10 13:56	75-01-4		
Bromofluorobenzene (S)	83 %	_	70-130		1		04/07/10 13:56	460-00-4		
bromofluoromethane (S)	78 %-	-	70-130		1		04/07/10 13:56	1868-53-7		
Toluene-d8 (S)	85 %-	-	70-130		1		04/07/10 13:56	2037-26-5		

.te: 04/16/2010 04:17 PM







Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

QC Batch:

ICP/3286

Analysis Method:

EPA 6010

QC Batch Method:

EPA 6010

Analysis Description:

ICP Metals, Trace, Dissolved

Associated Lab Samples:

4030145001, 4030145002, 4030145003, 4030145004, 4030145005, 4030145006, 4030145007, 4030145008, 4030145009, 4030145010, 4030145011, 4030145012, 4030145013, 4030145014, 4030145015

METHOD BLANK: 283697

Matrix: Water

Associated Lab Samples:

4030145001, 4030145002, 4030145003, 4030145004, 4030145005, 4030145006, 4030145007, 4030145008,

4030145009, 4030145010, 4030145011, 4030145012, 4030145013, 4030145014, 4030145015

Blank

Reporting

Parameter

Units

Units

4030145001

Result

3080

Result

Limit

Analyzed

Qualifiers

Manganese, Dissolved

ug/L

0.56J

5.0 04/08/10 21:46

LABORATORY CONTROL SAMPLE.

Parameter

Parameter

283698

Spike Conc

LCS

283700

MS

3450

LCS

96

% Rec

Manganese, Dissolved

Manganese, Dissolved

ug/L

Units

ug/L

500

Result 480 % Rec

Limits 80-120

73

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

283699

MS MSD Spike Spike

500

Conc.

Conc. Result

500

MSD Result

3450

MS % Rec

MSD % Rec

% Rec Limits

75-125

Max RPD RPD

Qual

20 P6 .03

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

MSV/7427

Analysis Method:

EPA 8260

QC Batch:
QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples:

4030145001, 4030145002, 4030145003, 4030145004, 4030145005, 4030145006, 4030145007, 4030145008,

METHOD BLANK: 282920

Toluene-d8 (S)

%-

Matrix: Water

Associated Lab Samples:

4030145001, 4030145002, 4030145003, 4030145004, 4030145005, 4030145006, 4030145007, 4030145008, 4030145009, 4030145010, 4030145011, 4030145012, 4030145013, 4030145014, 4030145015, 4030145016

Reporting Blank Parameter Units Result Limit Analyzed Qualifiers 1.0 04/07/10 07:27 1,1.1-Trichloroethane ug/L ND 1.1.2-Trichloroethane ND 1.0 04/07/10 07:27 ug/L 1.1-Dichloroethane ND 1.0 04/07/10 07:27 ug/L 1.1-Dichloroethene ND 04/07/10 07:27 ug/L 1.0 ND 1.0 04/07/10 07:27 1,2-Dichloroethane ug/L 2-Butanone (MEK) ND 20.0 04/07/10 07:27 ug/L Acetone ug/L ND 20.0 04/07/10 07.27 ND 1.0 04/07/10 07:27 Benzene ug/L Chloroethane ND 1.0 04/07/10 07:27 ug/L Chloroform ND 5.0 04/07/10 07:27 ug/L Chloromethane ug/L ND 1.0 04/07/10 07:27 cis-1,2-Dichloroethene ug/L ND 1.0 04/07/10 07:27 1.0 04/07/10 07:27 ethylene Chloride ug/L ND ND 1.0 04/07/10 07:27 atrachloroethene ug/L trans-1,2-Dichloroethene ND 1.0 04/07/10 07:27 ug/L 04/07/10 07:27 Trichloroethene ug/L NO 1.0 Vinvl chloride ND 04/07/10 07:27 1.0 ug/L 4-Bromofluorobenzene (\$) 80 70-130 04/07/10 07:27 %-Dibromofluoromethane (S) %-78 70-130 04/07/10 07:27

LABORATORY CONTROL SAM	PLE & LCSD: 282921		28	32922						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.8	49.9	106	100	70-132	6	20	
1.1.2-Trichloroethane	ug/L	50	47.1	45.0	94	90	70-130	5	20	
1,1-Dichloroethane	ug/L	50	50.5	47.8	101	96	70-130	5	20	
1,1-Dichloroethene	ug/L	50	47.2	44.4	94	89	70-130	6	20	
1,2-Dichloroethane	ug/L	50	53.2	51.1	106	102	70-134	4	20	
2-Butanone (MEK)	ug/L	50	58.0	45.6	116	91	36-181	24	35	
Acetone	ug/L	50	82.4	65.6	165	131	10-200	23	36	
Benzene	ug/L	50	46.6	43.6	93	87	70-131	7	20	
Chloroethane	ug/L	50	43.9	42.7	88	85	70-136	3	20	
Chloroform	ug/L	50	51.2	48.7	102	97	70-130	5	20	
Chloromethane	ug/L	50	32.2	28.4	64	57	54-148	13	20	
cis-1,2-Dichloroethene	ug/L	50	47.3	45.3	95	91	70-130	4	20	
Methylene Chloride	ug/L	50	47.5	46.2	95	92	66-130	3	20	
Tetrachloroethene	ug/L	50	53.8	52.1	108	104	75-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	44.9	43 7	90	87	70-130	3	20	
Trichloroethene	ug/L	50	53.1	52.9	106	106	70-130	.4	20	

85

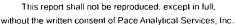
70-130

04/07/10 07:27

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.: 4030145

LABORATORY CONTROL SAI	MPLE & LCSD:	282921		2	82922								
			Spike	LCS	LCSD	LCS	LCSD	% Rec			Лах		
Parameter		Jnits	Conc.	Result	Result	% Rec	% Rec	Limits	R	PD F	RPD	Qua	alifiers
Vinyl chloride	ug/L		50	34.2	31.5	68	63	63-141		8	20		
4-Bromofluorobenzene (S)	%-					84	83	70-130					
Dibromofluoromethane (S)	%-					85	82	70-130					
Toluene-d8 (S)	%-					87	84	70-130					
MATRIX SPIKE & MATRIX SP	IKE DUPLICATE	28353	0		283531								
			MS	MSD									
	403	30193004	Spike	Spike	MS	MSD	MS	s MS	SD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% R	ec %F	Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroelhane	ug/L	<0.90	50	50	54.7	55.	4	109	111	70-137	1	20	
1,1,2-Trichloroethane	ug/L	< 0.42	50	50	44.1	45.	2	88	90	70-130	2	20	
1,1-Dichloroethane	ug/L	< 0.75	50	50	48.9	49.	5	98	99	70-130	1	20	
1,1-Dichloroethene	ug/L	< 0.57	50	50	47.2	45.	0	94	90	70-130	5	20	
1,2-Dichloroethane	ug/L	< 0.36	50	50	54.4	54	2	109	108	69-134	.5	20	
2-Butanone (MEK)	ug/L	<4.3	50	50	44.3	45.	0	89	90	36-181	2	35	
Acetone	ug/L	< 5.0	50	50	47.9	38	3	96	77	10-200	22	36	
Benzene	ug/L	< 0.41	50	50	44.8	45.	5	90	91	69-131	1	20	
vloroethane	ug/L	< 0.97	50	50	44.1	44.	2	88	88	66-136	.2	20	
loroform	ug/L	<1.3	50	50	51.2	50.	9	102	102	70-130	.6	20	
Chloromethane	ug/L	< 0.24	50	50	29.7	29.	6	59	59	54-148	.4	20	
cis-1,2-Dichloroethene	ug/L	< 0.83	50	50	46.7	45.	8	93	92	70-130	2	20	
Methylene Chloride	ug/L	< 0.43	50	50	47.3	47.	9	95	96	64-130	1	20	
Tetrachloroethene	ug/L	2.6	50	50	57.2	56.	1	109	107	70-130	2	20	
frans-1,2-Dichloroethene	ug/L	< 0.89	50	50	46.1	44.	9	92	90	70-130	3	20	
Trichloroethene	ug/L	2.5	50	50	56.7	56.	4	108	108	70-130	.5	20	
Vinyl chloride	ug/L	<0.18	50	50	32.5	32.	6	65	65	59-141	.3	20	
4-Bromofluorobenzene (S)	%-							82	82	70-130			
Dibromofluoromethane (S)	%-							84	84	70-130			
Toluene-d8 (S)	%-							85	83	70-130			

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

QC Batch:

WETA/6136

Analysis Method:

EPA 300.0

QC Batch Method:

EPA 300.0

Analysis Description:

300.0 IC Anions

Associated Lab Samples:

4030145001, 4030145002, 4030145003, 4030145004, 4030145005, 4030145006, 4030145007, 4030145008,

4030145009. 4030145010

METHOD BLANK:

Associated Lab Samples:

285352

Matrix: Water

4030145001, 4030145002, 4030145003, 4030145004, 4030145005, 4030145006, 4030145007, 4030145008.

4030145009, 4030145010

Reporting

Parameter

Units

Units

Blank Result

Limit

Analyzed

Qualifiers

Sulfate

mg/L

ND

04/13/10 12:33

LABORATORY CONTROL SAMPLE:

Parameter

285353

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Sulfate

mg/L

20

19.1

95

90-110

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

285354

4.7

MSD

Spike

Conc.

MSD

MS

MSD

90

% Rec Max

Qual

Sulfate

Parameter

4030145001 Units Result mg/L

Spike Conc. 20

MS

MS Result 20 22.7

285355

Result 22 7

% Rec 90 % Rec

Limits 90-110

RPD RPD

20

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REPORT OF LABORATORY ANALYSIS

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Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

QC Batch:

WETA/6145

Analysis Method:

EPA 300.0

QC Batch Method:

EPA 300.0

Analysis Description:

300.0 IC Anions

Associated Lab Samples:

4030145011, 4030145012, 4030145013, 4030145014, 4030145015

METHOD BLANK: 285823

Matrix: Water

Associated Lab Samples:

4030145011, 4030145012, 4030145013, 4030145014, 4030145015

Blank Result Reporting

Parameter

Units

Limit

Analyzed

Qualifiers

Sulfate

mg/L

ND

4.0 04/13/10 16:25

LABORATORY CONTROL SAMPLE:

Parameter

285824

Units

Spike Conc.

LCS Result

LCS % Rec

MSD

Result

26.1

% Rec Limits

Qualifiers

Sulfate

ulfate

Sulfate

mg/l.

Units

Units

mg/L

mg/L

20

MS

Spike

Conc.

MS

Spike

Conc.

100

20

19.4

97

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

285825

4030145012

Result

20774261

Result

41.6

Spike

Conc.

285826 MSD

MS

26.0

Result

285828

MS

Result

134

MS

% Rec

MS

% Rec

92

92

MSD % Rec

93

92

90-110

% Rec Limits

Max RPD RPD Qual

20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE.

Parameter

Parameter

285827

7.5

20

MSD

100

Spike

Conc.

MSD

Result

133

MSD

% Rec

% Rec

90-110

Max RPD RPD

Limits Qual 90-110 .5 20

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9

(920)469-2436

Green Bay, WI 54302

QUALIFIERS

Project:

71243.61 MEDLEY FARMS

Pace Project No.:

4030145

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

NALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

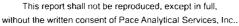
P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the

spike level.

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

71243.61 MEDLEY FARMS

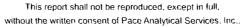
Pace Project No.: 4030145

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4030145001	A-7	EPA 6010	ICP/3286		
1030145002	BW-108	EPA 6010	ICP/3286		
1030145003	SW-108	EPA 6010	ICP/3286		
030145004	BW-110	EPA 6010	ICP/3286		
030145005	SW-102	EPA 6010	ICP/3286		
030145006	SW-103	EPA 6010	ICP/3286		
030145007	SW-109	EPA 6010	ICP/3286		
030145008	BW-109	EPA 6010	ICP/3286		
030145009	SW-104	EPA 6010	ICP/3286		
030145010	BW-202	EPA 6010	ICP/3286		
030145011	SW-3	EPA 6010	ICP/3286		
030145012	MW-3D	EPA 6010	ICP/3286		
030145013	BW-1	EPA 6010	ICP/3286		
030145014	SW-1	EPA 6010	ICP/3286		
030145015	DU-10103	EPA 6010	ICP/3286		
030145001	A-7	EPA 8260	MSV/7427		
1030145002	BW-108	EPA 8260	MSV/7427		
1030145003	SW-108	EPA 8260	MSV/7427		
030145004	BW-110	EPA 8260	MSV/7427		
730145005	SW-102	EPA 8260	MSV/7427		
J30145006	SW-103	EPA 8260	MSV/7427		
030145007	SW-109	EPA 8260	MSV/7427		
030145008	BW-109	EPA 8260	MSV/7427		
030145009	SW-104	EPA 8260	MSV/7427		
030145010	BW-202	EPA 8260	MSV/7427		
030145011	SW-3	EPA 8260	MSV/7427		
030145012	MW-3D	EPA 8260	MSV/7427		
030145013	BW-1	EPA 8260	MSV/7427		
030145014	SW-1	EPA 8260	MSV/7427		
030145015	DU-10103	EPA 8260	MSV/7427		
030145016	TBLK-10104	EPA 8260	MSV/7427		
030145001	A-7	EPA 300.0	WETA/6136		
030145002	BW-108	EPA 300.0	WETA/6136		
030145003	SW-108	EPA 300.0	WETA/6136		
030145004	BW-110	EPA 300.0	WETA/6136		
030145005	SW-102	EPA 300.0	WETA/6136		
030145006	SW-103	EPA 300.0	WETA/6136		
030145007	SW-109	EPA 300.0	WETA/6136		
030145008	BW-109	EPA 300.0	WETA/6136		
030145009	SW-104	EPA 300.0	WETA/6136		
030145010	BW-202	EPA 300.0	WETA/6136		
030145011	SW-3	EPA 300.0	WETA/6145		
030145012	MW-3D	EPA 300.0	WETA/6145		
1030145013	BW-1	EPA 300.0	WETA/6145		
1030145014	SW-1	EPA 300.0	WETA/6145		
4030145015	DU-10103	EPA 300.0	WETA/6145		

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CHAIN OF CUSTOY RECORD

7706. 4030145

	Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535 ne 864/281-0030 • Fax 864/281-0288								Fi	ltered (Yes/No)	/m/		n/		ZZ	
								ı	Preserv	red (Co	de)	<u> 5/13</u>	[A		//	_/_/	
Project No	.Le1	Projec	t/Client: Medbey on:						.6	sled	Yes/No) de) Marylet		//	//		/	ERVED CODES
Project Mo	nager/Co	ntact Perso)	on;		l . '				ુલ્જે	7 /	MAR	//	/ /	/ /	//		HNO ₃
5, we	.66 J	1 2. 6	lant,		nber]	برون	5/	/s.	y g/			//			H ₂ SO ₄
				Nun	MATRIX	٠,	91/4	"\ '\	المحاريد	(Mrs.)	/ /		//		D — I E — I	NaOH HCI	
Lab No.	Yr. (D Date	Time	Samp	ole Station ID	Total Number of Containers	¥		100	055	54		//	//	Com	ments:		METHANOL
(20)	3/24	1210	A-7		5	CW	3	1	1					9-95	DWIND	3.40n	N B
800	3/24	1430	BW-108		,	1	/	,	(7		ı	
003	3/26	1140	5w_108				/	7									
400	3/30	0930	BW-110						7					- 1			
005	'	1045	SW-102					/									
066		/140	Sw-103				\prod	1	5								
766		/450	56-109						1								
<i>30</i> %	7	1420	BW-109		('		,	Ĺ <u></u>								
0003	3/30	1620	54-164		5	600	3	1	l								
010	3/3/	0940	BW-202		5	40	3	ŧ	1						Ψ		$\overline{\uparrow}$
SPECIAL IN	ISTRUCTIO	ONS															
				8712 6041	9/22	 ව											
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Janto	efst.		1600	FED EX	140	pė	1	I Flan			Report	Due _		_			
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Relinquished by (Signature) Date/Time Received by (Signature)			Dat				Other (list)			Receipt Temp: Receipt pH Temp Blank (Y) N (Wet/Metals)				ials)			
Custody Se	al: Pres	ent/Absent	t Intact/Not Intact	Seal #s		-			_		1			-			0k-



CHAIN OF CL DY RECORD

															$-\iota \cup$	C/C	
				eenville, SC 29615-3535					Filte	ered (Y	es/No)	N	1/	$ \omega $			
			1/281-0288					F	reserve	d (Coc	de) 🔏	5/B	/A			\angle	
Project No 7/243 Project Mo	Project No. 7/243,4/ Project Manager/Contact Person: CLIEBB L. CHART					MATRIX	Je Retuested				(Yes/No) Code) E B A MANUSANTE				PRESERVED CO A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NaOH		
lab No.	Yr. <u>ID</u> Date	Time	Sam	Sample Station ID			**************************************			<u> </u>			Comme	E — HCI F — METHANOL Comments: G —			
011	3/31	1040	5ω-3	5	دسی	3	1	1					3.30	20W10	3.40	m13	
519		1130	MW-3D	5	لاب	3	1	1									
013		430	BW-1	5	6 W	3	1									i	
314		1340	SW-1		5	60	3		j			<u></u>					
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016			TRK 10104												9-40W	\P	
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SPECIAL IN	NSTRUCTIO	ONS															
				8712 6041	9/21	9											
SAMPLER Relinquished by (Signature) Date/Time Received by (Signature) 4-1-10 1600				4-1-	<u> අ</u>	\	WITH S	ASSOCI IAMPLE Imable		ì	Around rt Due _	•	•	ormal	Rush	_	
Relinquished by (Signature) Pate/Time Received by (Signature) Received by (Signature) Received by (Signature) Date/Time Received by (Signature)				Dai Dai	☐ Corrosive ☐ Highly Toxic ☐ Other (list)				Receipt Temp: Temp Blank (Y) N				ror Lab Use Only) Receipt pH (Wet/Meta)s)				
Custody Se	eal: Pres	ent/Absent	Intact/Not Intact	Seal #s											-		<u>~ I</u>

PROJECT WORK ORDER Medley Farm - March 2010

Laboratory: Microseeps

220 William Pitt Way

Pittsburgh, PA 15238

Project: Medley Farm

Project Number: 71243.61

Sample Date: March 8 - 23, 2010

Tumaround Time: Standard

Detection Limit: Federal DW MCL where applicable

RMT format EDD required.

QC Package: Level 2

Ph: (412) 826-5245 Fax: (412) 826-3433 Contact: Debbie Hallo or Becky Hand

Project Manager. Steve Webb

Project Contact: Terry Hertz/Lisa Clark Laboratory: Pace - Green Bay, WI

1241 Bellevue St.

Greenbay, WI 54302

Ph: 1-800-7-ENCHEM Fax: 920-469-8827

Contact: Kang Khang

MCL reporting (NOT MDL unless needed for MCL); "J" flagging; no SIM.

	mostly desired transfer or	STATES TO THE	VALUE OF THE OWN TO SERVE	PRODUCE POLL TO	S CONTRACTOR DE LA COMP	E. M. D.	Control of the Contro
		FieldMeasured					COMMENS
	Voc	Dissolved refere	Dissolved and	Sofac	Volable atty		GONMENTO
		1700	Manganese		ACU.	DHI-DO-DRI	
						emp-Spect	
velou	9250B	ะสังหาสา 🔫	(010B	3000	AVDIG	Concl	
		(国産業の対象)			300 C		
bottle	Α	В	C	D_	E		
Sample ID				r			Measure water levels on all wells.
A-1	x	×	λ	Х	X	X	
A-2	x	X	X	×	X	X	No MS/MSD
A-3	X	X	X	Х	X	x	
Λ-1	X	X	X	x	X	×	Special Volatiles List
A-5	X	x	X	×	X	X	Acetone
Λ-6	X	X	X	X	X	×	Benzene
A-7	X	x	х	Х	X	×	2-Butanone
B-1	X	X	X	x	X	х	Chloroform
B-2	X	×	x	X	X	X	Chloroethane
B-3	X	x	x	Х	х	X	Chloromethane
B-4	×	×	X	χ	X	х	1,1-Dichloroethane
BW-I	x	х	x	×	х	X	1,2-Dichloroethane
BW-2	x	x	X	X	X	X	1,1-Dichloroethene
BW-3	×	x	x	x	X	x	cis-1,2-Dichloroethene
BW-4	X	x	X	×	X	X	trans-1,2-dichloroethene
BW-105	X	x	х	x	X	x	Methylene chloride
BW-106	×	x	x	×	x	х	Tetrachloroethene
BW-108	x	×	x	×	x	х	Trichloroethene
BW-109	×	х	X	х	X	X	1,1,1-Trichloroethane
BW-110	x	X	x	х	X	x	1,1,2-Trichloroethane
BW-111	×	×	x	×	x	x	Vinyl chloride
BW-201	×	x	x	X	x	x	
BW-202	x	x	×	×	х	x	Volatile Fatty Acids are to be sent to Microseeps.
DP-2-1	x	×	x	X	×	×	
DP-3-1	x	x	x	×	x	×	Bring filters to field for dissolved ferrous iron.
DP-3-2	x	×	Х -	X	×	×	
MLW-1-1	x	×	x	x	x	X	
MLW-1-2	×	x	×	X	x	x	<u> </u>

PROJECT WORK ORDER Medley Farm - March 2010

Laboratory: Microseeps 220 William Pitt Way

Pittsburgh, PA 15238

Project: Medley Farm

Project Number: 71243.61

Sample Date: March 8 - 23, 2010
Turnaround Time: Standard

Detection Limit: Federal DW MCL where applicable

QC Package: Level 2 RMT format EDD required.

MCL reporting (NOT MDL upless needed for MCL): "I" flagging: no SIM

Project Manager: Steve Webb

Project Contact: Terry Hertz/Lisa Clark Laboratory: Pace - Green Bay, WI

1241 Bellevue St. Greenbay, WI 54302

Ph: (412) \$26-5245 Fax: (412) \$26-3433 Ph: 1-800-7-ENCHEM Fax: 920-469-8827

Contact: Debbie Hallo or Becky Hand Contact: Kang Khang

12 PO 10 PO 10 PO 10 PO	CONTRACTOR OF	ess needed for MC	WELL SCHOOL STREET	WANTED SEE		30-127-218	
And to		ज़िल्ला अस्ति । ज़िल्ला अस्ति ।			Value	TITIO MEAS	COMMUNIS
	- voe	Decolve Farious	Manganes	31/100	A CO	THE DO ORP	
y a		ं वक्रा				Temp Spec	
		AleConcerned Dissolved Persons Single Persons				(concl	
Bottle	Α	В	C	ם	E	ì	
Sample ID							Measure water levels on all wells.
MLW-1-3	x	Х	X	×	×	×	
MLW-1-4	×	X	X	x	Х	×	
MLW-3-1	X	х	Х	х х	x	X	
MLW-3-2	X	X	х	Х	х	x	
MLW-3-3	X	X	X	X	x	Х	
MLW-3-4	X	×	X_	х	×	×	<u> </u>
MW-3D	X	X	×	×	×	×	
MW-2-1	x	X	X	×	×	X	
MW-2-2	X	X	X	X	X	X	ļ
MW-4-1	x	X	X	X	X	X	<u> </u>
MW-4-2	x	x	X	X	X	×	
SW-101	X	X	X	х	x	X	
5W-102	x	X	X	X	X	×	
5W-103	X	x	X	_ x	X	X	
SW-104	X	X	x _	х	х	X	
SW-106	×	×	×	x	X	×	
SV-108	X	x	X	х	X	x	
SW-109	х	X	х	х	×	Х	
SIV-201	x	x	х	×	х	X	
SW-202	×	X	x	×	х	×	
SW-1	x	×	x	x	x	×	
SW-3	X	X	x	×	x	×	
SW-4	X	x	×	x	- x	×	
SWS-1	x					X	
SWS-2	x					×	
WS-3	^					x	
OU-10101	`		X	X	X		collect from groundwater, NOT surface water
DU-10102	<u>^</u>		<u>^</u>	^	\\ \tilde{\times} \\		collect from groundwater, NOT surface water
DU-10103							collect from groundwater, NOT surface water
	X		X	X			conect from groundwater, NOT surface water
FBLK-10101	x	X	Х	×	x		

PROJECT WORK ORDER

Medley Farm - March 2010

Laboratory: Microseeps

220 William Pitt Way

Pittsburgh, PA 15238

Project: Medley Farm

Project Number: 71243.61

Sample Date: March 8 - 23, 2010 Turnaround Time: Standard

Detection Limit: Federal DW MCL where applicable

QC Package: Level 2

RMT format EDD required.

Project Manager: Steve Webb

Project Contact: Terry Hertz/Lisa Clark Laboratory: Pace - Green Bay, WI

1241 Bellevue St. Greenbay, WI 54302

Ph: (412) 826-5245 Fax: (412) 826-3433 Ph: 1-800-7-ENCHEM Fax: 920-469-8827

Contact: Debbie Hallo or Becky Hand Contact: Kang Khang

MCL reporting (NOT MDL unless needed for MCL); "J" flagging; no SIM.

	10111100011110	os nececta for the	- 1 - 66 · · · 6 · · · · ·	<u> </u>			
Arriyo	.	Field Mestined Displayed constraint Total	Dissived - Margarese	3000	Vortice ally 245	THEOMEAS PHIDO OR Temp Spec	COMMENS
Medical	8250B	ation of	3010B	S0000	AVM6	Cond-	
Bottle	A	В	C	D	E		
Sample ID							Measure water levels on all wells.
RBLK-10101	×	×	X	x	×	į	
TBLK-10101	Х						
TBLK-10102	Х						
TBLK-10103	X						
TB1.K-10104	Х						
TBLK-10105	Х						
TBLK-10106	Х						

- A VOCs: three 40 mL septum vials; HCl preservative; ice; HT 14 days
- B Dissolved Ferrous Iron: Chemetrics field test kit; HT ASAP
- C Dissolved Manganese: one 125 mL plastic; HNO₂ to pH<2; ice; HT 6 months
- D Sulfate: one 500 mL plastic; no preservative; ice; HT 28 days; 14 days
- E Volatile Fatty Acids: two 40 mL clear; no preservative; ice; HT preferred 14 day

Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name	e:7	MT		Pr	roject # <u>4030145</u>
Courier: Fed Ex T UPS T USPS T	Client Co	mmerc	ial l'Pace	Other	
Tracking #:			,		
Custody Seal on Cooler/Box Present: yes	s it no	Seals	intact: Γ ye	s no	Optional
Custody Seal on Samples Present:	5 PG0	Seals	intact: Γ ye	s [no	Proj. Due Date
Packing Material: Bubble Wrap Bul	bble Bags 📑	Non	e Other		Proj. Name
Thermometer Used		・・・	Blue Dry Nor		Samples on ice, cooling process has begun
Cooler Temperature 1.5°C	Biological	lissue	is Frozen:	yes no	
Temp Blank Present: Yes no	1 D'-1-		L	110	Person examining contents:
Temp should be above freezing to 6°C for all sample ex Biota Samples should be received ≤ 0°C.			Comments:		Date: 4/8/10 Initials: RE
Chain of Custody Present:	QYes DNo	_□N/A	1		
Chain of Custody Filled Out:	QYes ONo	□N/A	2.		
Chain of Custody Relinquished:	QYes ONO	□n/A	3.		
Sampler Name & Signature on COC:	□Yes □No	□n/A	4.		
Samples Arrived within Hold Time:	⊠yes □No	□N/A	5.		
Short Hold Time Analysis (<72hr):	□Yes ☑No	□wa	6.		
Rush Turn Around Time Requested:	□Yes \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	□N/A	7.		
Sufficient Volume:	IZYes □No	□n/a	8.		
Correct Containers Used:	√[Yes □No	□n/a	9.		
ace Containers Used:	√Yes □No	□N/A			
Containers Intact:	QYes DNo	□n/a	10.		
Filtered volume received for Dissolved tests	Dyes INO	□N/A	11.		
Sample Labels match COC:	Lì⁄yes □No	□n/a	12.		
-Includes date/time/ID/Analysis Matrix:	<u> </u>				
All containers needing preservation have been checked.	QYes □No	□n/a	13.		
All containers needing preservation are found to be in	∑Yes □No	∏n/a			
compliance with EPA recommendation.	`		Initial when		Lot # of added
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No		<u> </u>	16	preservative
Samples checked for dechlorination:	□Yes □No				
Headspace in VOA Vials (>6mm):	□Yes \\\\		·		
Trip Blank Present:	XYes □No		16.		
Trip Blank Custody Seals Present	Yes □No	□N/A			
Pace Trip Blank Lot # (if purchased):					
Client Notification/ Resolution: Person Contacted:		Date/	Гime:	_	Field Data Required? Y / N
Comments/ Resolution:					
		1			- 1 1.
وز الماريخ ject Manager Review:		m	· · · · · · · · · · · · · · · · · · ·		Date: 4(5)(0

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 1 of 18 Lab Proj #: P1004044 Report Date: 05/03/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Labor	ratory	Results
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Total pages in data package: ___

Lab Sample #	Client Sample ID
P1004044-01	A-7
P1004044-02	BW-108
P1004044-03	SW-108
P1004044-04	BW-110
P1004044-05	SW-102
P1004044-06	SW-103
204044-07	SW-109
04044-08	BW-109
. 1004044-09	SW-104
P1004044-10	BW-202
P1004044-11	SW-3
P1004044-12	MW-3D
P1004044-13	BW-1
P1004044-14	SW-1
P1004044-15	DU-10103

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By:	Xlebbre Hallo	Date:	5-310
Project Manager:	/ Debbie Hallo		

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

> As a valued client we would appreciate your comments on our service. Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

COC-SIGNED; TEMP-OK; HT- ALL ANALYSES PERFORMED OUTSIDE OF HOLD TIME.

MBLK — CLEAN

LCS — RECS OK

MS/MSD — RECS + RPDs OK;

DV-10103 USED FOR

MS/MSD.

DV-10103 USED FOR

MS/MSD.

DV-10103 USED FOR

Tomple comes solution.

DUP - DU-10103 IS A FIELD DUPLICATE OF MW-3D. NO DETECTIONS IN PARENT OR DUPLICATE, SO RPD NOT CALCULATED

> Client Name: RMT, Inc. Contact: Steve Webb

Address: Patewood Plaza One

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Page: Page 1 of 18

Lab Proj #: P1004044

Report Date: 05/03/10

Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Laboratory Results

Lab Sample #	Client Sample ID
P1004044-01	A-7
P1004044-02	BW-108
P1004044-03	SW-108
P1004044-04	BW-110
P1004044-05	SW-102
P1004044-06	SW-103
P1004044-07	SW-109
21004044-08	BW-109
P1004044-09	SW-104
P1004044-10	BW-202
P1004044-11	SW-3
P1004044-12	MW-3D
P1004044-13	BW-1
P1004044-14	SW-1
P1004044-15	DU-10103

BECAUSE OF MISSED HOLD TIMES,

PLL NON-DETECT RESULTS FOR SAMPLES

IN THIS DATA PACKAGE ARE ASSIGNED

A "LI" FLAG, AND

ALL DETECTIONS FOR SAMPLES IN THIS

DATA PACKAGE ARE ASSIGNED A "j-" FLAG.

JZH 5/3/10

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Xlebre Hallo Date: 5-310

Project Manager: Debbie Hallo

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Page: Page 2 of 18 Lab Proj #: P1004044 Report Date: 05/03/10 Client Proj Name: Medley Farm

Client Proj #: 00-71243.61 T1

Case Narrative: The analyses were performed outside of the holding times

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Page: Page 3 of 18 Lab Proj #: P1004044 Report Date: 05/03/10 Client Proj Name: Medley Farm

Sample Description A-7	<u>Matrix</u> Water		b Sample 004044-0		Sampled Date/Time 26 Mar. 10 12:10	Received 02 Apr. 10 14:59	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	J	1	1:0	mg/L	AM21G	4/29/10	td
N- Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/29/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/29/10	td
N Propionic Acid	U	< 1.0:	1:0	mg/L	AM21G	4/29/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/29/10	td

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Page: Page 4 of 18

Lab Proj #: P1004044 Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description BW-108	<u>Matrix</u> Water		o Sample 004044-0		Sampled Date/Time 26 Mar. 10 14:30	<u>Received</u> 02 Apr. 10 14:59	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid N Pyruvic Acid	U U U	1.1 < 1.0 < 25.0 < 1.0 < 10.0	1.0 1.0 25.0 1.0 10:0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	4/29/10 4/29/10 4/29/10 4/29/10 4/29/10	td td td td td

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Page: Page 5 of 18 Lab Proj.#: P1004044 Report Date: 05/03/10 Client Proj Name: Medley Farm

Sample Description SW-108	<u>Matrix</u> Water	.			Sampled Date/Time 26 Mar: 10 11:40	Receive 02 Apr. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	Ü	< 1.0	1.0	mg/L	AM21G	4/29/10	tď
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/29/10	td
N Lactic Acid	J	11.0	25.0	mg/L	AM21G	4/29/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/29/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/29/10	td

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Page: Page 6 of 18 Lab Proj #: P1004044 Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description BW-110	<u>Matrix</u> Water				Sampled Date/Time 30 Mar. 10 9:30	<u>Received</u> 02 Apr. 10 14:59	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid N Propionic Acid N Pyruvic Acid	U U U	4.8 < 1.0 3.3 < 1.0 < 10.0	1.0 1.0 25.0 1.0 10.0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	4/29/10 4/29/10 4/29/10 4/29/10 4/29/10	td td td td td

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Page: Page 7 of 18
Lab Proj #: P1004044
Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description SW-102	<u>Matrix</u> Water	Lab Sample # P1004044-05			Sampled Date/Time 30 Mar. 10 10:45	<u>Receiv</u> 02 Apr. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	U	< 10.0	10.0	mg/L	AM21G	4/30/10	td

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Page: Page 8 of 18 Lab Proj #: P1004044 Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description SW-103	<u>Matrix</u> Water	Lab Sample #- P1004044-06		Sampled Date/Time Receive 30 Mar. 10 11:40 02 Apr. 1		_	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N' Acetic Acid N' Butyric Acid N. Lactic Acid N' Propionic Acid N' Pyruvic Acid	U U U U	< 1.0 < 1.0 < 25:0 < 1.0 < 10:0	1.0 1.0 25.0 1.0	mg/L mg/L mg/L mg/L mg/L	AM21G AM21G AM21G AM21G AM21G	4/30/10 4/30/10 4/30/10 4/30/10 4/30/10	td td td td

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Page: Page 9 of 18
Lab Proj.#: P1004044
Report Date: 05/03/10
Client Proj Name: Medley Farm

Sample Description SW-109	<u>Matrix</u> Water	Lab Sample # <u>9</u> P1004044-07			Sampled Date/Time 30 Mar. 10 14:50	<u>Receiv</u> 02 Apr. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/Ľ	AM21G	4/30/10:	td
N Butyric Acid		1.5	1.0	mg/L	AM21G	4/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N Propionic Acid	Ü	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	ับ	< 10:0	10.0	mg/L	AM21G	4/30/10	td

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Page: Page 10 of 18

Lab Proj #: P1004044 Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description BW-109	<u>Matrix</u> Water	Lab Sample # P1004044-08		Sampled Date/Time Received 30 Mar. 10 14:20 02 Apr. 10			
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid	U	< 1.0 < 1.0	1.0	mg/L mg/L	AM21G AM21G	4/30/10 4/30/10	td td
N Lactic Acid N Propionic Acid N Pyruvic Acid	n n	< 25.0 0.8 < 10.0	25.0 1.0 10.0	mg/L mg/L mg/L	AM21G AM21G AM21G	4/30/10 4/30/10 4/30/10	td td td

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Page: Page 11 of 18 Lab Proj #: P1004044

Report Date: 05/03/10 Client Proj Name: Medley Farm

Sample Description SW-104	<u>Matrix</u> Water				Sampled Date/Time 30 Mar. 10 16:20	<u>Received</u> 02 Apr. 10 14:59	
Analyte(s)	Flag	Resuit	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	U	< 10.0	10.0	ma/L	AM21G	4/30/10	td

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Page: Page 12 of 18 Lab Proj #: P1004044 Report Date: 05/03/10 Client Proj Name: Medley Farm

Sample Description BW-202	Matrix Lab Sample Water P1004044-1			Sampled Date/Time 31 Mar. 10 9:40	<u>Received</u> 02 Apr. 10 14:59		
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	U	< 10.0	10.0	ma/l	AM21G	4/30/10	fd

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Greenville, SC 29615-3535

Page: Page 13 of 18
Lab Proj #: P1004044
Report Date: 05/03/10

Client Proj Name: Medley Farm Client Proj #: 00-71243.61 T1

Sample Description SW-3	<u>Matrix</u> Water	Lab Sample # P1004044-11			Sampled Date/Time 31 Mar. 10 10:40	<u>Receiv</u> 02 Apr. 10	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid	U	4.7 < 1.0	1.0 1.0	mg/L mg/L	AM21G AM21G	4/30/10 4/30/10	td td
N Lactic Acid N Propionic Acid N Pyruvic Acid	U U	< 25.0 < 1.0 < 10.0	25.0 1.0 10.0	mg/L mg/L mg/L	AM21G AM21G AM21G	4/30/10 4/30/10 4/30/10	td td td

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page:14 of:18. Lab:Proj:#: P1004044

Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description MW-3D	<u>Matrix</u> Water	Lab Sample # 91004044-12			Sampled Date/Time 31 Mar. 10 11:30	<u>Received</u> 02 Apr. 10 14:59	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles							
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N: Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N: Propionic Acid	. U	< 1.0:	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	U [,]	< 10.0	10.0	mg/L	AM21G	4/30/10	td

Address: Patewood Plaza One

Suite 100

30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 15 of 18 Lab Proj #: P1004044 Report Date: 05/03/10 Client Proj Name: Medley Farm

Sample Description BW-1	<u>Matrix</u> Water	Lab Sample # <u>\$</u> P1004044-13			Sampled Date/Time 31 Mar. 10 14:30	<u>Received</u> 02 Apr. 10 14:59	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Butyric Acid⊟	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Lactic Acid	Ū	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N Propionic Acid	Ü	· < 1.0	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	·U	< 10.0	10.0	mg/L	AM21G	4/30/10	td

Address: Patewood Plaza One

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Page: Page 16 of 18 Lab Proj #: P1004044 Report Date: 05/03/10

Client Proj Name: Medley Farm

Sample Description SW-1	<u>Matrix</u> Water	Lab Sample # P1004044-14		Sampled Date/Time Re 31 Mar. 10 13:40 02 Apr.		_	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles N Acetic Acid N Butyric Acid N Lactic Acid	n n	< 1.0 0.8 < 25.0	1.0 1.0 25.0	mg/L mg/L mg/L	AM21G AM21G AM21G	4/30/10 4/30/10 4/30/10	td td td
N Propionic Acid N Pyruvic Acid	Ů U	< 1.0 < 10.0	1.0 10.0	mg/L mg/L	AM21G AM21G	4/30/10 4/30/10	td td

Address: Patewood Plaza One

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Greenville, SC 29615-3535

Page: Page 17 of 18 Lab Proj #: P1004044 Report Date: 05/03/10 Client Proj Name: Medley Farm

Sample Description DU-10103	<u>Matrix</u> Water		b Sample 004044-1		Sampled Date/Time 31 Mar. 10 0:00	<u>Received</u> 02 Apr. 10 14:59	
Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	Ву
SemiVolatiles			_				
N Acetic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Butyric Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Lactic Acid	U	< 25.0	25.0	mg/L	AM21G	4/30/10	td
N Propionic Acid	U	< 1.0	1.0	mg/L	AM21G	4/30/10	td
N Pyruvic Acid	U	< 10.0	10.0	ma/L	AM21G	4/30/10	td

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30 Patewood Drive

Greenville, SC 29615-3535

Page: Page 18 of 18
Lab Proj #: P1004044
Report Date: 05/03/10
Client Proj Name: Medley Farm
Client Proj #: 00-71243.61 T1

Prep Method: Analysis of Volatile Fatty Acids in Water

Analysis Method: Analysis of Volatile Fatty Acids in Water

M100501002-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits		
Acetic Acid	< 1.0	mg/L		1.0		- NA		
Propionic Acid	< 1.0	mg/L		1.0		- NA		
Butyric Acid	< 1.0	mg/L		1.0	•	- NA		
Lactic Acid	< 25.0	mg/L		25.0		- NA		
Pyruvic Acid	< 10.0	mg/L		10.0		- NA		
M100501002-LCS								
	Result		TrueSpikeConc.		%Recovery	Ctl Limits		
cetic Acid	96.0	mg/L	100.00		96.00	70 - 130		
Propionic Acid	95.0	mg/L	100.00		95.00	70 - 130		
Butyric Acid	100.0	mg/L	100.00		100.00	70 - 130		
Lactic Acid	110.0	mg/L	100.00		110.00	70 - 130		
Pyruvíc Acid	90.0	mg/L	100.00		90.00	70 - 130		
P1004044-15A-MS								
	<u>Result</u>		TrueSpikeConc.		%Recovery	Ctl Limits		
Acetic Acid	99.0	mg/L	100.00		99.00	70 - 130		
Propionic Acid	91.0	mg/L	100.00		91.00	70 - 130		
Butyric Acid	90.0	mg/L	100.00		90.00	70 - 130		
Lactic Acid	110.0	mg/L	100.00		110.00	70 - 130		
Pyruvic Acid	99.0	mg/L	100.00		99.00	70 - 130		
P1004044-15A-MSD								
	Result		TrueSpikeConc.		%Recovery	Ctl Limits	<u>RPD</u>	RPD Ctl Limits
Acetic Acid	110.0	mg/L	100.00		110.00	70 - 130	10.53	0 - 20
Propionic Acid	110.0	mg/L	100.00		110.00	70 - 130	18.91	0 - 20
Butyric Acid	110.0	mg/L	100.00		110.00	70 - 130	20.00	0 - 20
Lactic Acid	120.0	mg/L	100.00		120.00	70 - 130	8.70	0 - 20
Pyruvic Acid	110.0	mg/L	100.00		110.00	70 - 130	10.53	0 - 20





CHAIN OF CUS. / RECORD

77087

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535 Phone 864/281-0030 • Fax 864/281-0288							iltered (Ye		N/	//		
	Project/Client: Malley t Person:		umber ainers	×	<u> </u>	Preser	esed Cod	e) / 12/				PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NeOH
Lab No. Yr./ <u>O</u> Date Ti	ime Samp	ole Station ID	Total Number of Containers	MATRIX	Prig	Adle				//c	omments:	E — HCI F — METHANOL G —
1 3/26 12	10 A-7		2	600	2	L_				<u> </u>		
2 3/26 14	130 BW-108											
3 3/26 11	40 SW-108											
4 3/30 00	930 BW-110											
6 / /3	045 56-102											
6 11	140 SW-103		ΓT					}				
7	150 SW-109		1		151							
7	120 BW-109		7	7								
	620 Sw-101		2	600	2							
	240 BW-20Z		2	400	72							
SPECIAL INSTRUCTIONS	و الله الله الله الله الله الله الله الل									<u> </u>		
		8585 9686	798	3/								
SAMPLER Relinquished by	4-1-10	Received by (Signature)	47		W	RDS ASSO ITH SAMI Flammab	PLES	ľ	ound (cir	cle one)	Normal	Rush
Relinquished by (Signature) Date/Time Received by (Signature)		Da	te/Time	☐ Corrosive			(For Lab Use Only)			nly)		
Relinquished by (Signatur	re) Date/Time	Received by (Signature)	Date/Time		Highly Toxic Other (list)						Receipt pH (Wet/Metals)	
Custody Seal: Present/	Absent Intact/Not Intact	Seal #s										



CHAIN OF CUSTODY RECORD

77445

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535					Filtered [Yes/No]							
Phone 864/281-0030 • Fax 864/281-0288			Preserved (Code) A									
Project No. 71243.61 Project Manager/Contact Person: S. WEBB / L. CIART.	umber ainers	mber niners X		d4565	2eque	sted A						PRESERVED CODES A — NONE B — HNO ₃ C — H ₂ SO ₄ D — NoOH
Lab No. Yr. 10 Date Time Sample Station ID	Total Number of Containers	MATRIX	Þ.C	2011/10			<u> </u>	//	/	Comments	<u>; </u>	E — HCI F — METHANOL G —
1 3/31 1040 560-3	2	رياي	2						_			
12 1130 Mw-3D	2	ره وي	2									
13 1430 BW-1	Z	6W	Z									
14 1340 SW-1	2	640	~~									
DU-10103	2	صب	2						<u> </u>			
	1											
SPECIAL INSTRUCTIONS		<u> </u>				<u>} </u>						
8585 96	686	7981										
SAMPLER Relinquished by (Signature) Augustus Augustus	<i>F</i> . I	te/Time	1	ARDS . WITH S	Sampl	.ES	Turn	Arcund		one) Norm	nal R	lush
Relinquished by (Signature) Date/Time Received by (Signature)	, Dai	le/Time	Į.	□ Cori □ High						(For Lab U	•	
Relinquished by (Signature) Date/Time Received by (Signature)	Doi	te/Time	} =	Othe				eipt Ten p Blank	-	Ν		eceipt pH /et/Metals)
Custody Seal: Present/Absent Intact/Not Intact Seal #s	/	/									_	

Cooler Receipt Form

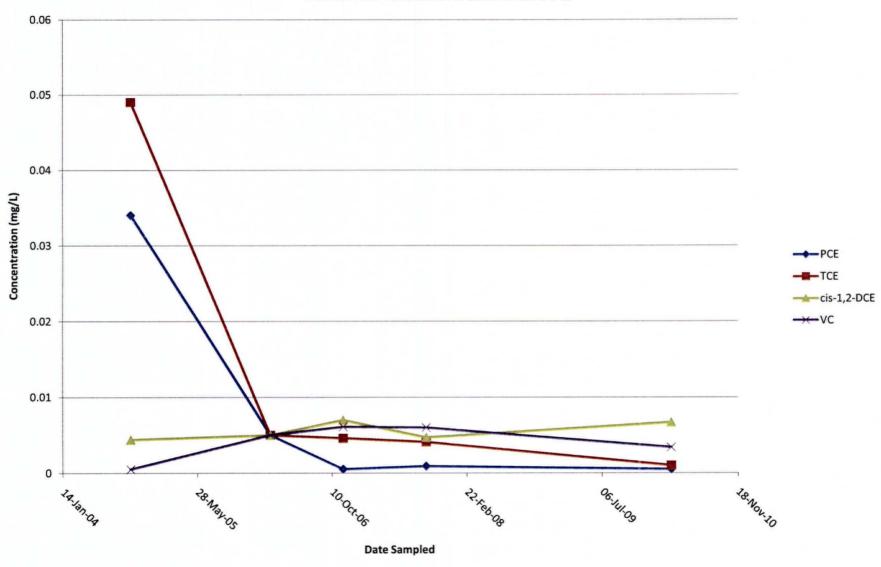
.ient:RMT, Inc.	Client C	ode:RMTSC	LabProjec	ct #: P1004044
Project: Medley Farm				
Cooler ID: 1				
A. Preliminary Examination Pha	se: Date cooler oper	ned: 4/2/2010		
	Cooler opened b	y: dp		
1. Was airbill Attached? N/A	Airbill #:		Carrier Na	me:FedEx
2. Custody Seals? N/A	How many?	0 μ	ocation:	Seal Name:
3. Seals intact? Yes				
4. Screened for radiation?N/A				
5. COC Attached? Yes	Properly Comp	leted? Yes	Signed I	by employee? Yes
6. Project Identification from cu	stody paper: Medley F	arm		
7. Preservative: Yes	Temperature:	4		
Comments:				
B. Log-In Phase: Samples Log-i	n Date: 4/2/2010	Log-in By:	dp	e de la composition della comp
1. Packing Type: Other				
Were samples in separate ba	gs? N/A			
3. Were containers intact?	Yes	Labels :	agree with COC?	Yes
4. Number of bottles received:	28	Number	r of samples receive	d: 14
5. Correct containers used?	Yes	Correct	preservatives adde	d? N/A
6. Sufficient sample volume?	Yes			
7. Bubbles in VOA samples?	N/A			
8. Was Project manager called a	ind status discussed?	N/A		
Comments:				

Have designate person initial here to acknowledge receipt of cooler:

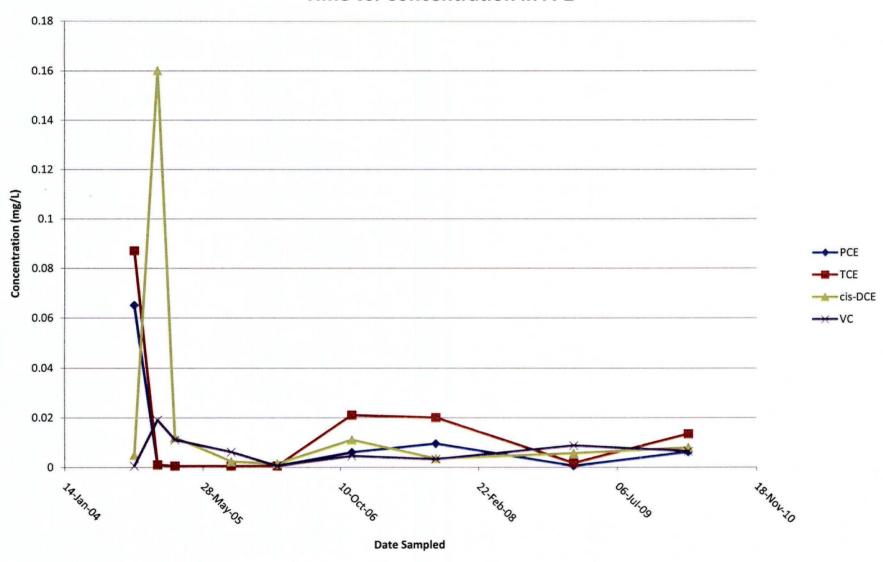
Date: 4/2/10

Appendix B Time Versus Concentration Graphs

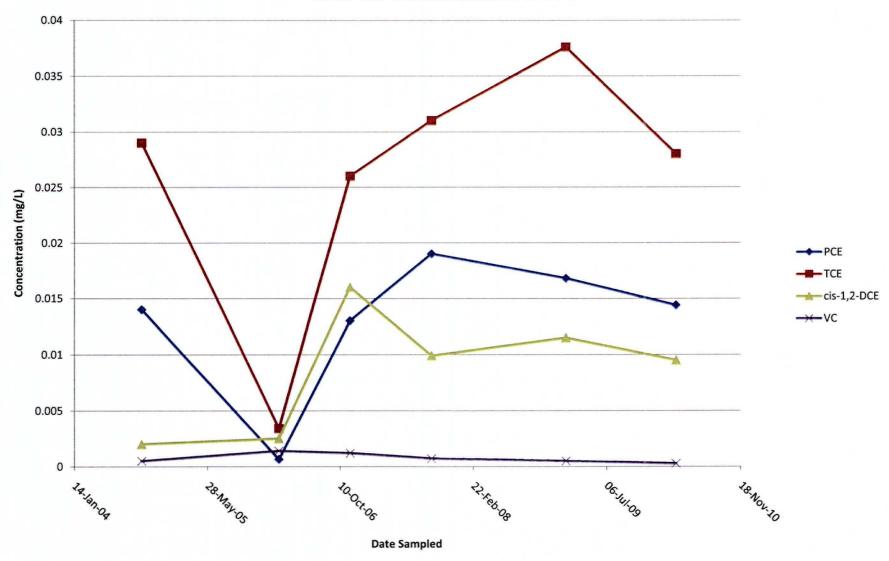
Time vs. Concentration in A-1



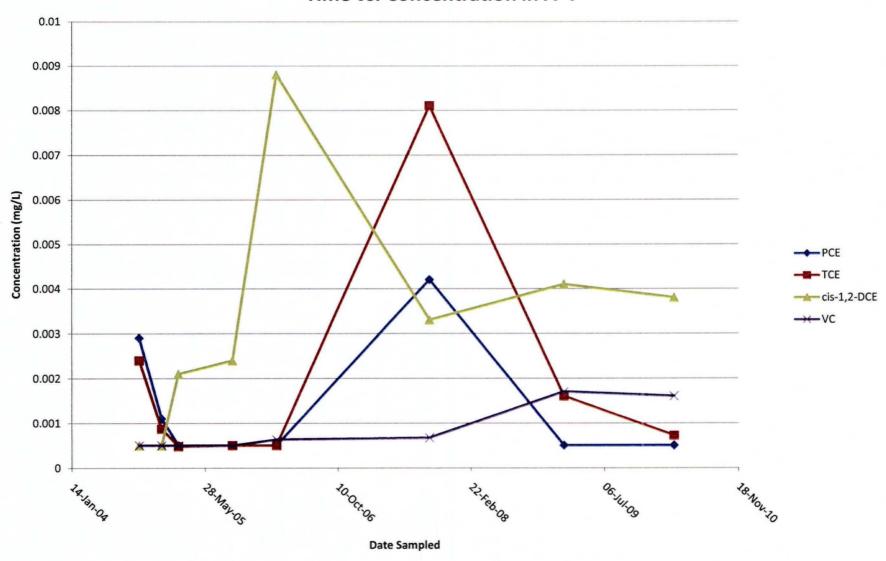
Time vs. Concentration in A-2



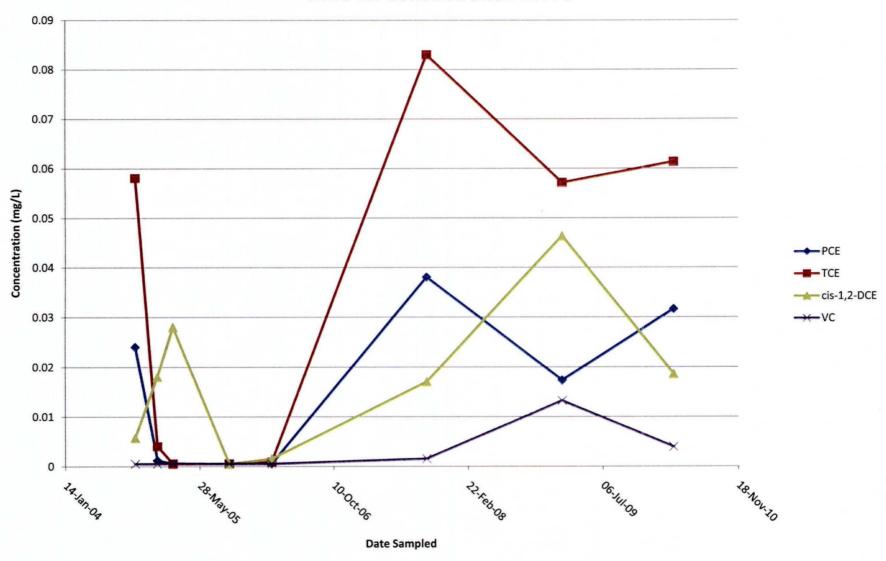
Time vs. Concentration in A-3



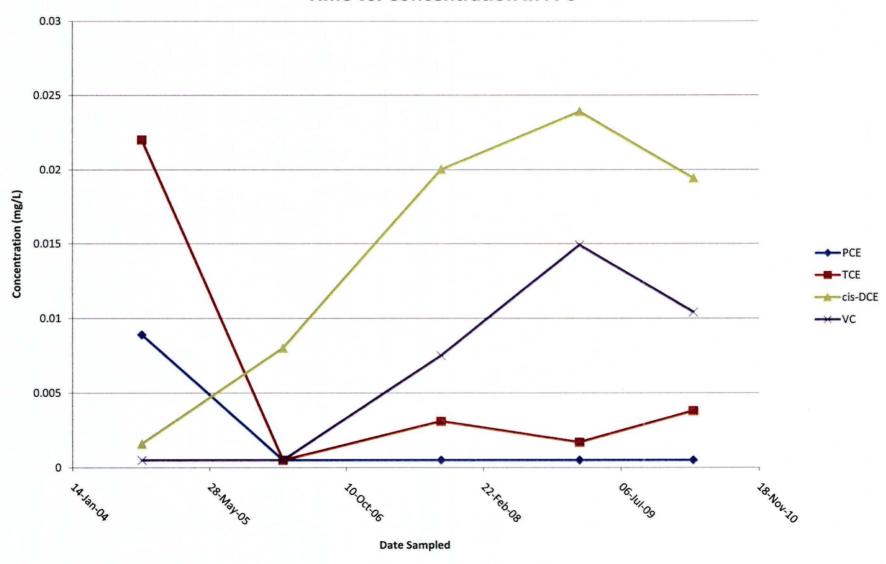
Time vs. Concentration in A-4



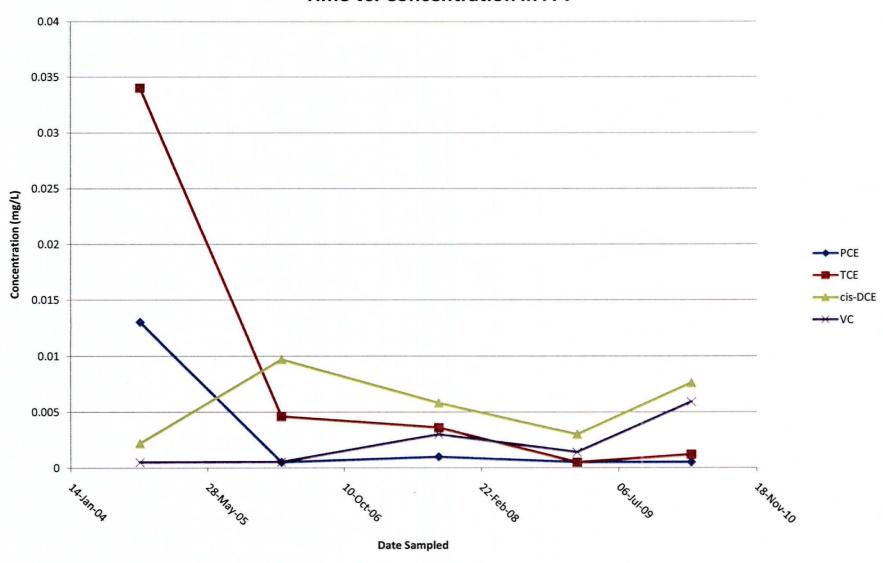
Time vs. Concentration in A-5



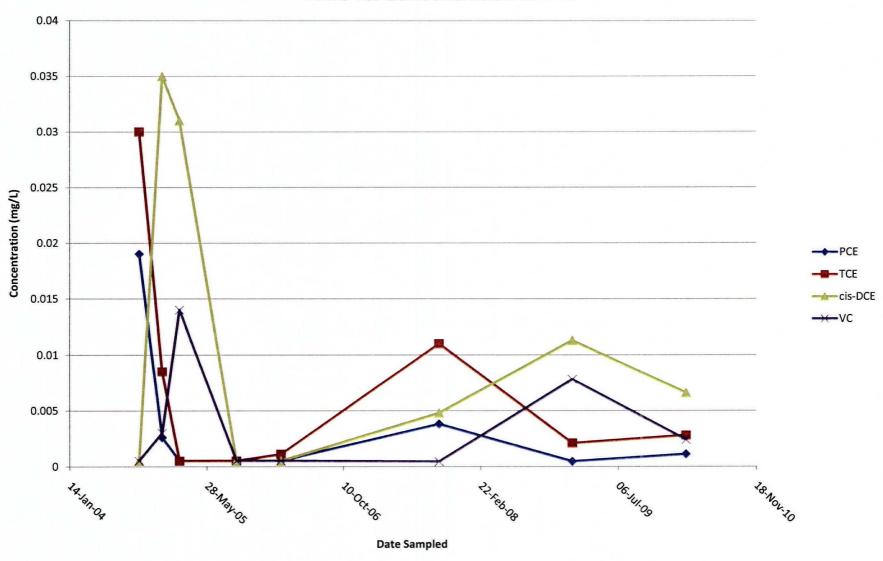
Time vs. Concentration in A-6



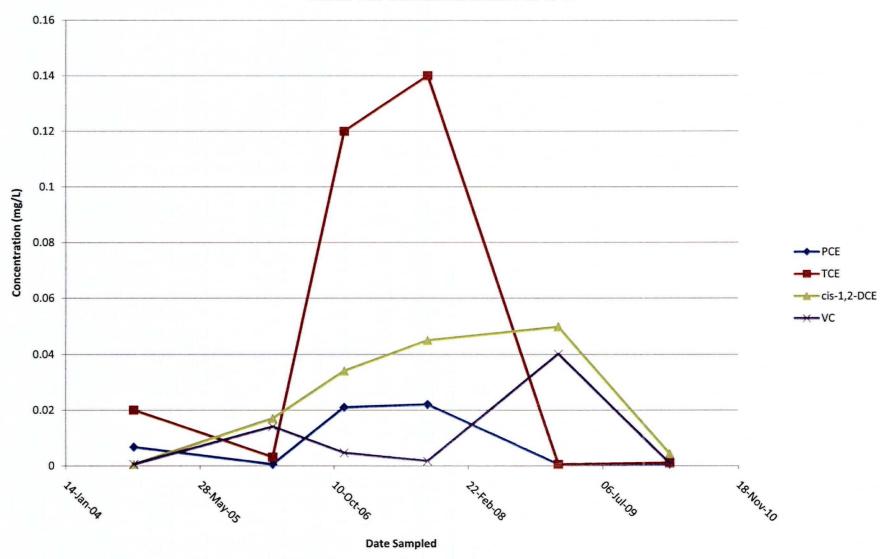
Time vs. Concentration in A-7



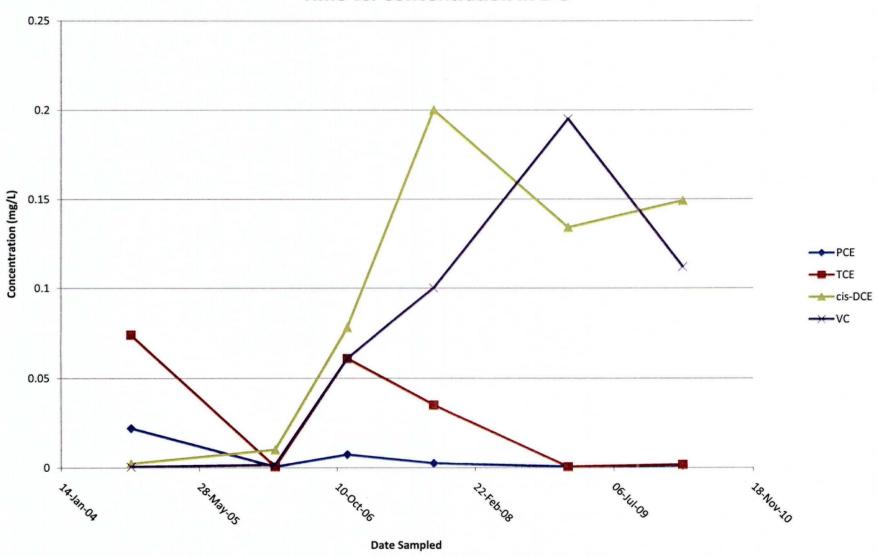
Time vs. Concentration in B-1



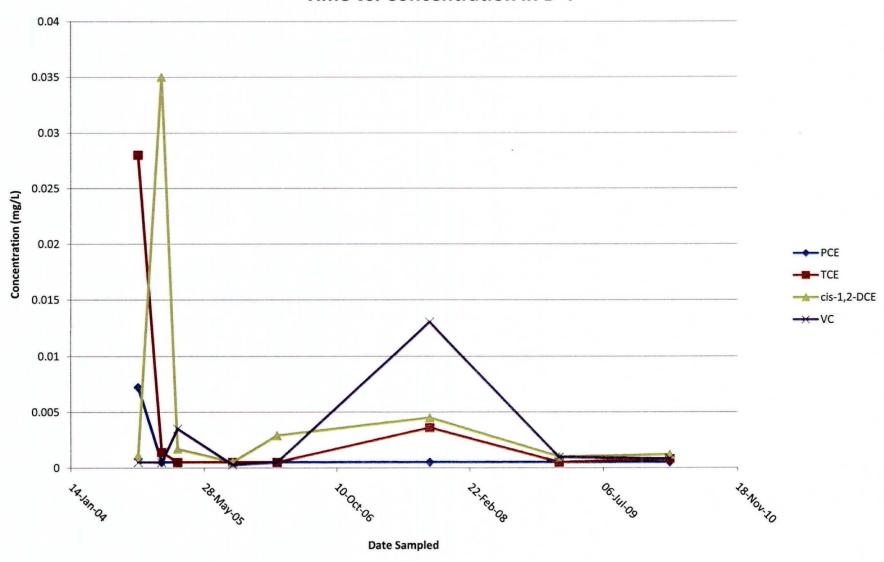
Time vs. Concentration in B-2



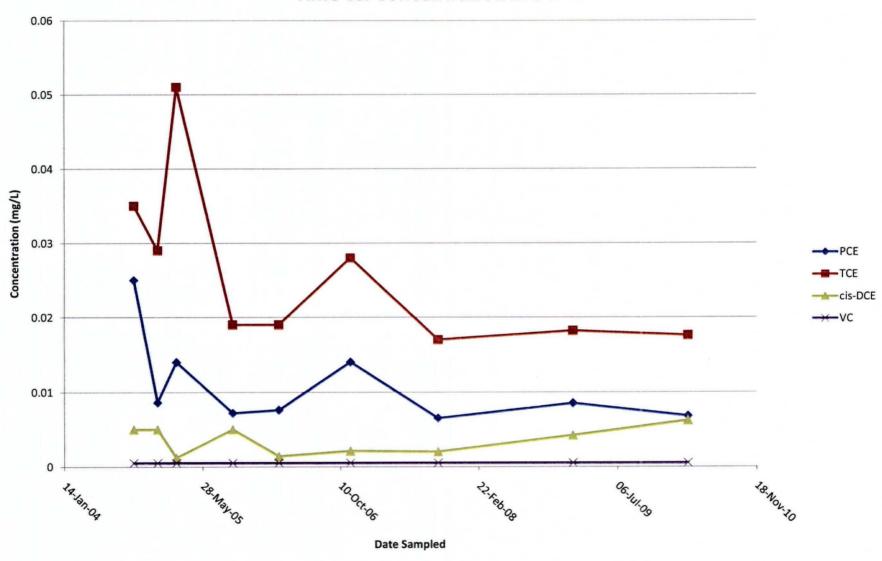
Time vs. Concentration in B-3



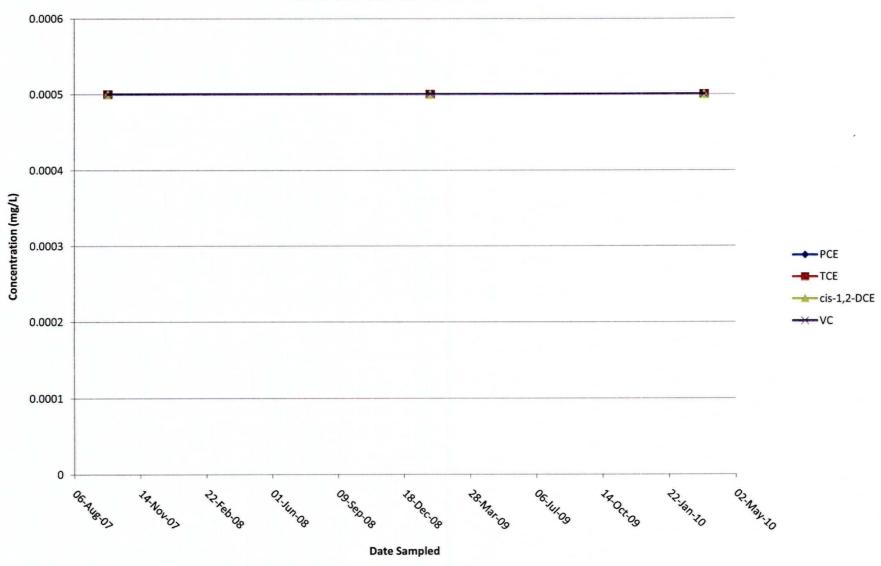
Time vs. Concentration in B-4



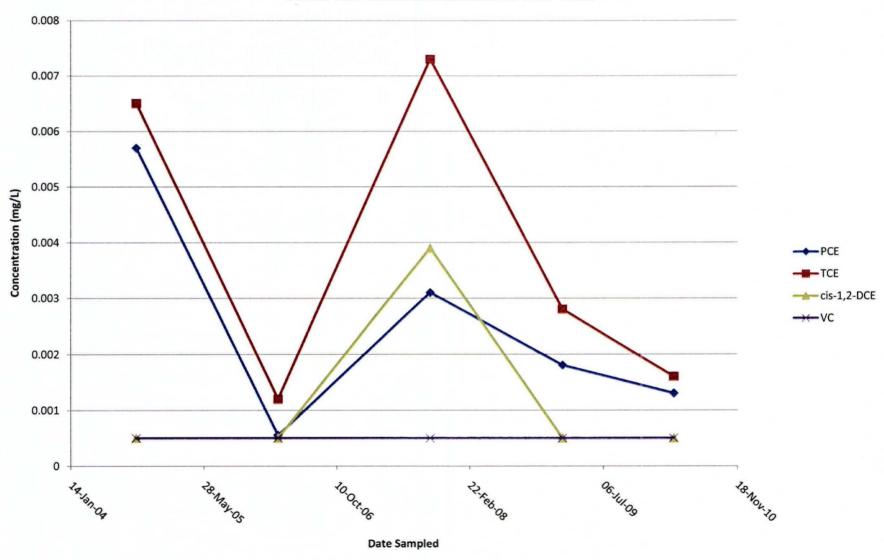
Time vs. Concentration in BW-2



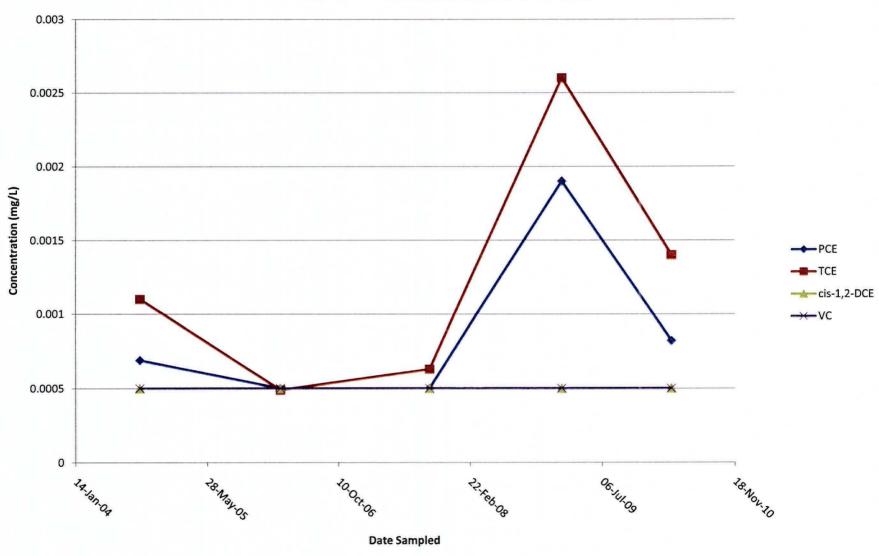




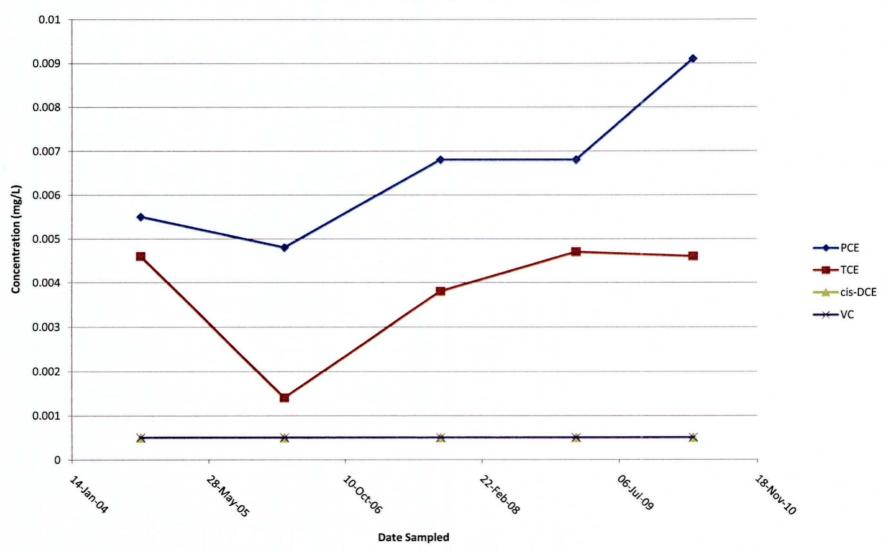
Time vs. Concentration in BW-108



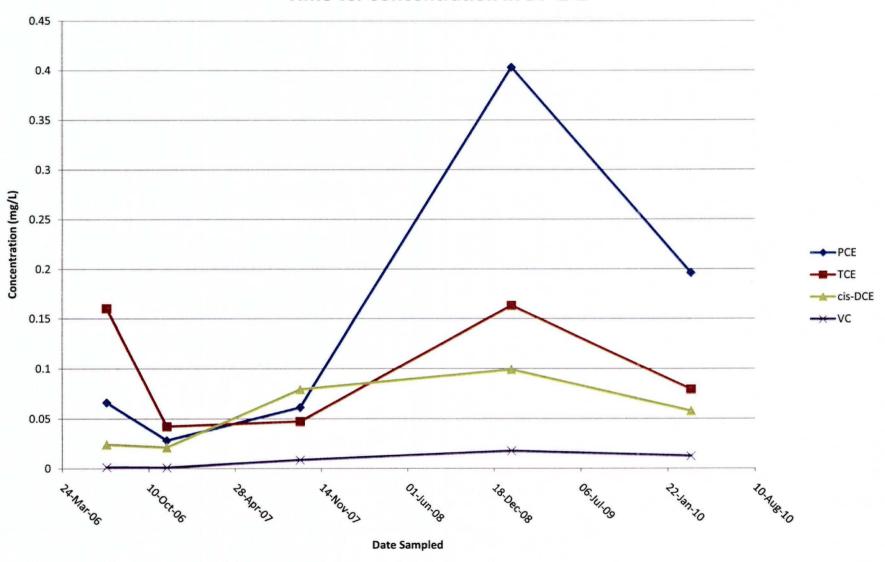
Time vs. Concentration in BW-201



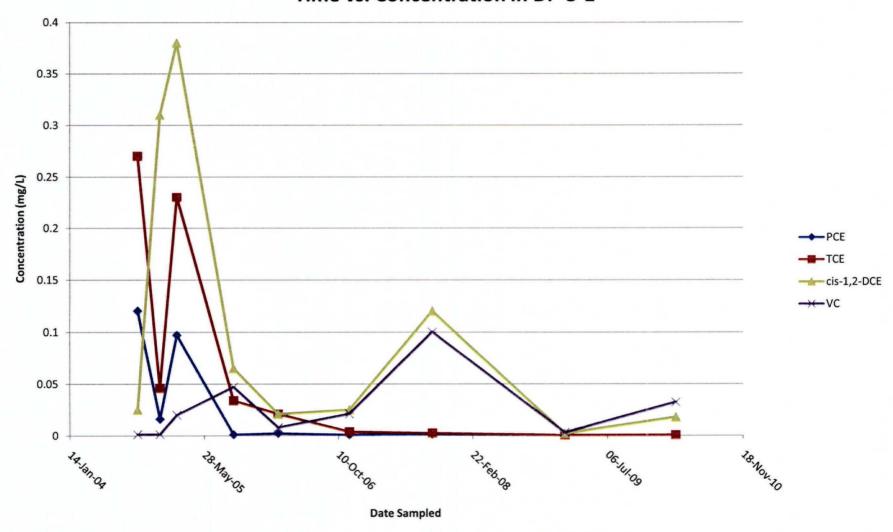
Time vs. Concentration in BW-202



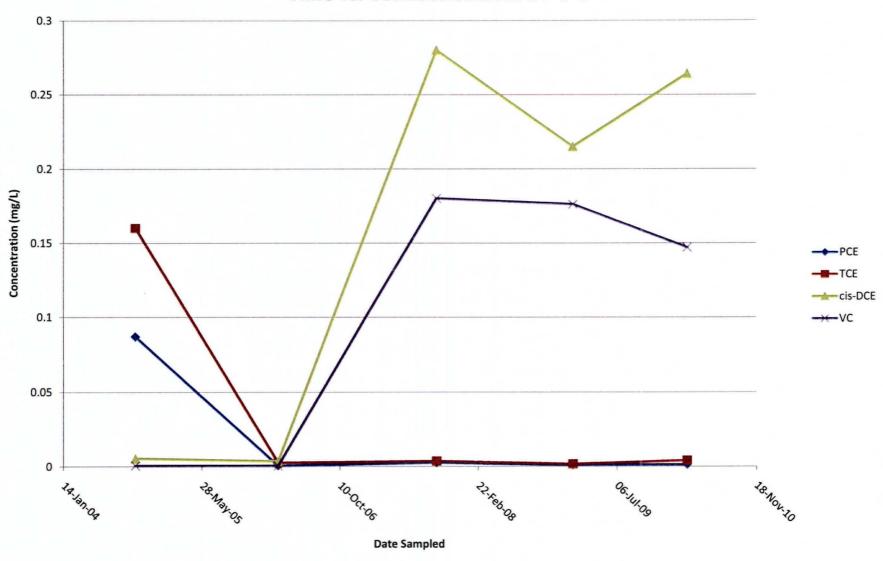
Time vs. Concentration in DP-2-1



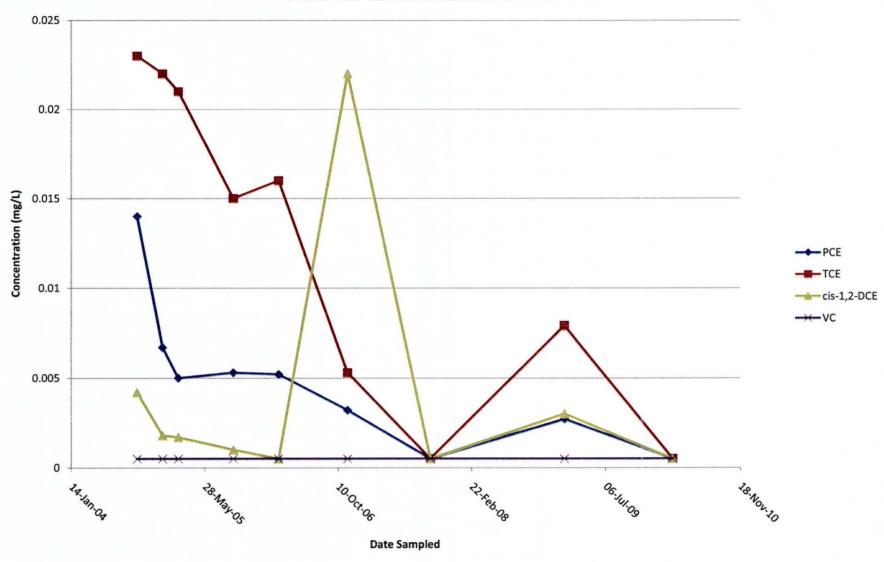
Time vs. Concentration in DP-3-1



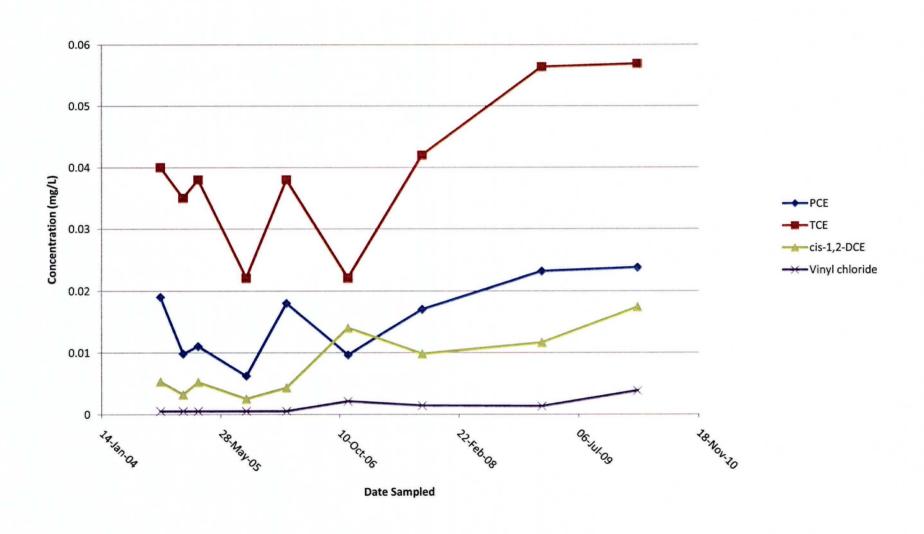
Time vs. Concentration in DP-3-2



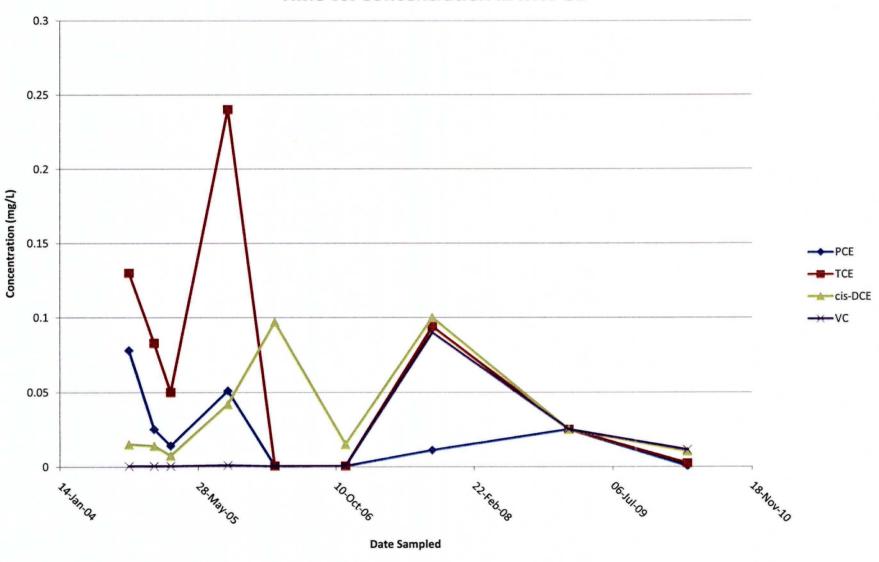
Time vs. Concentration in MW-2-1



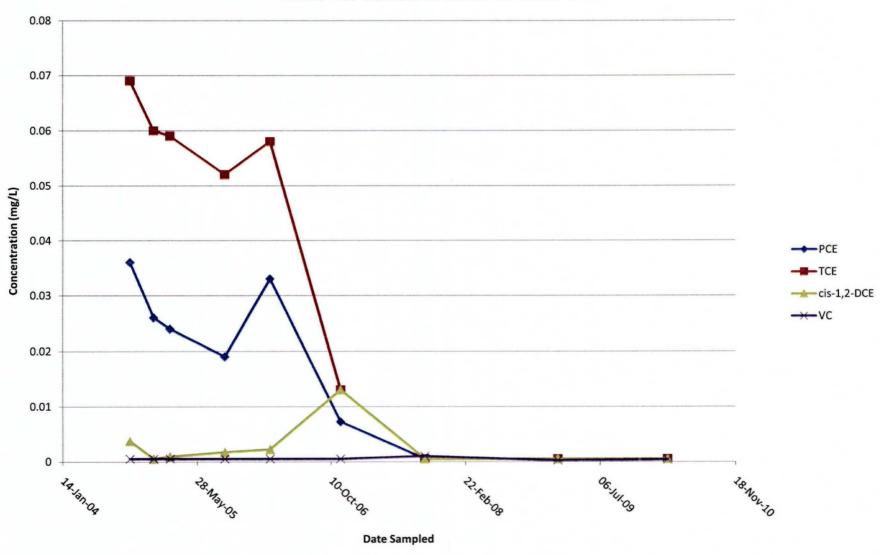
Time vs. Concentration in MW-2-2



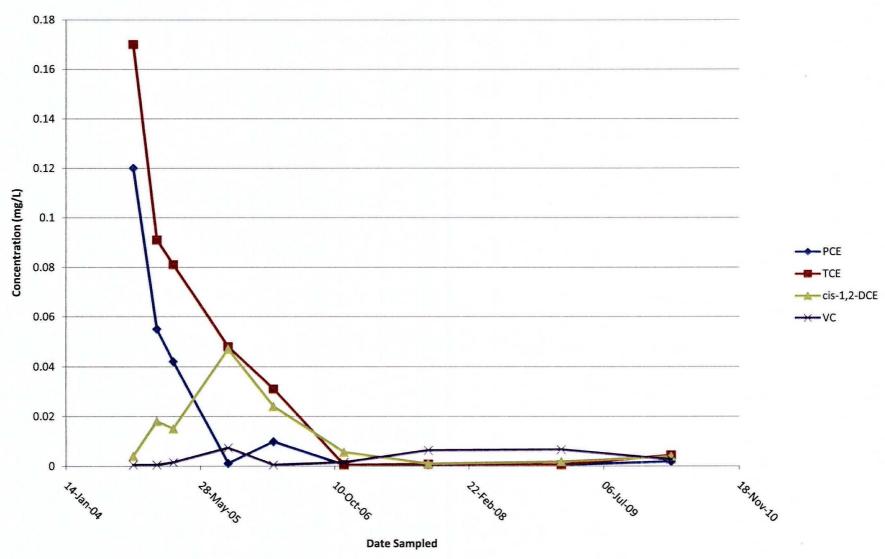
Time vs. Concentration in MW-3D



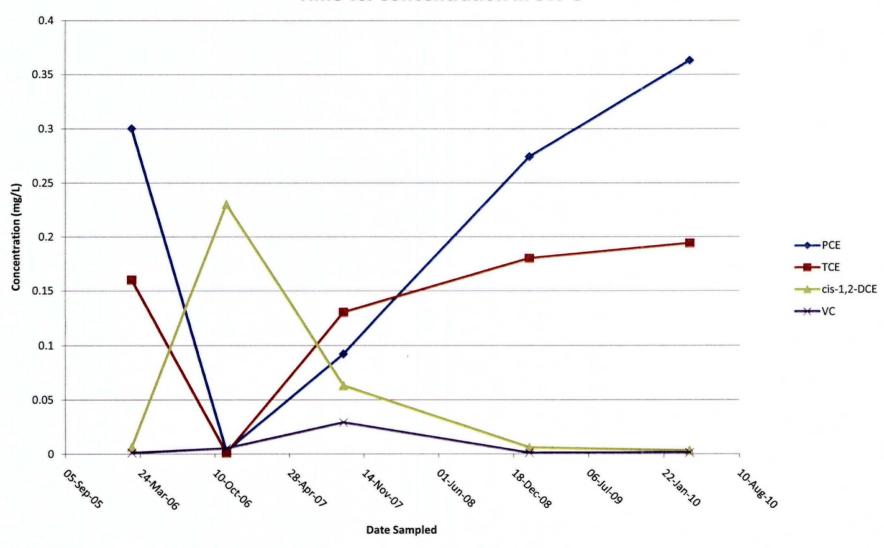
Time vs. Concentration in MW-4-1



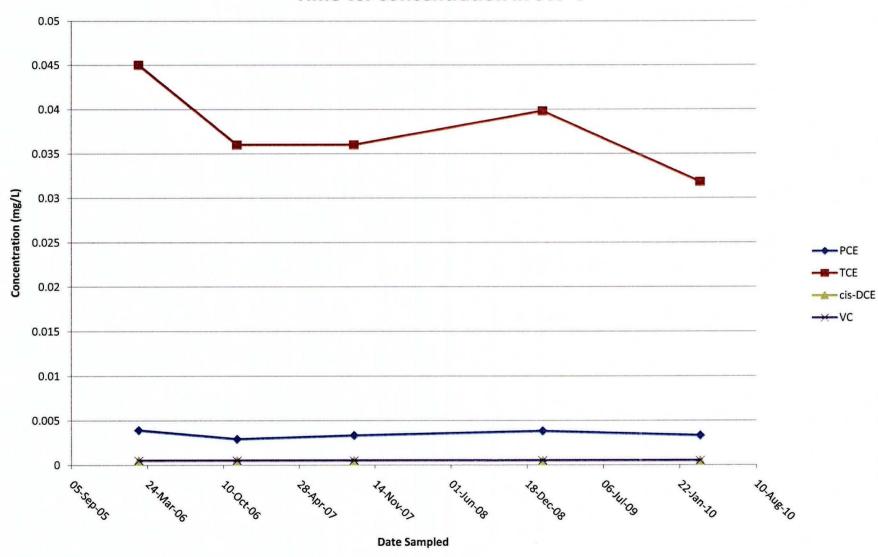
Time vs. Concentration in MW-4-2



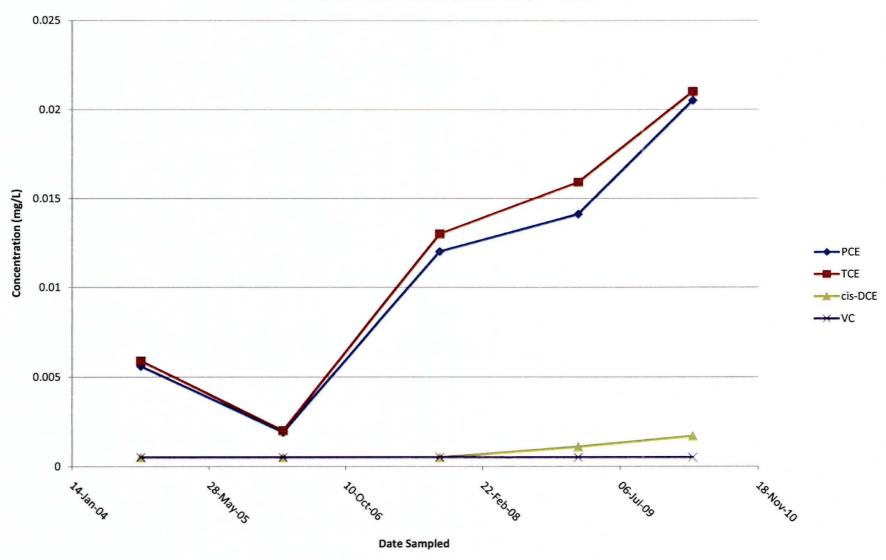
Time vs. Concentration in SW-3



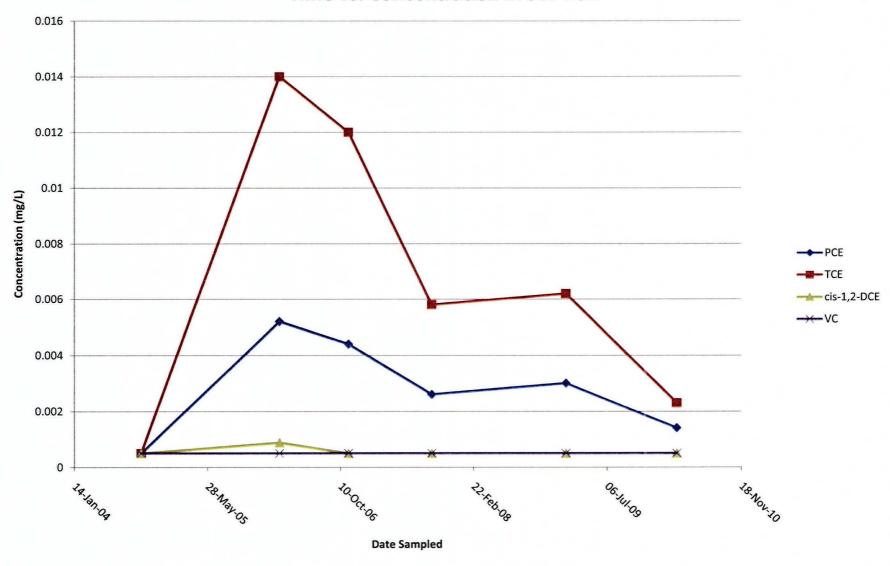
Time vs. Concentration in SW-4



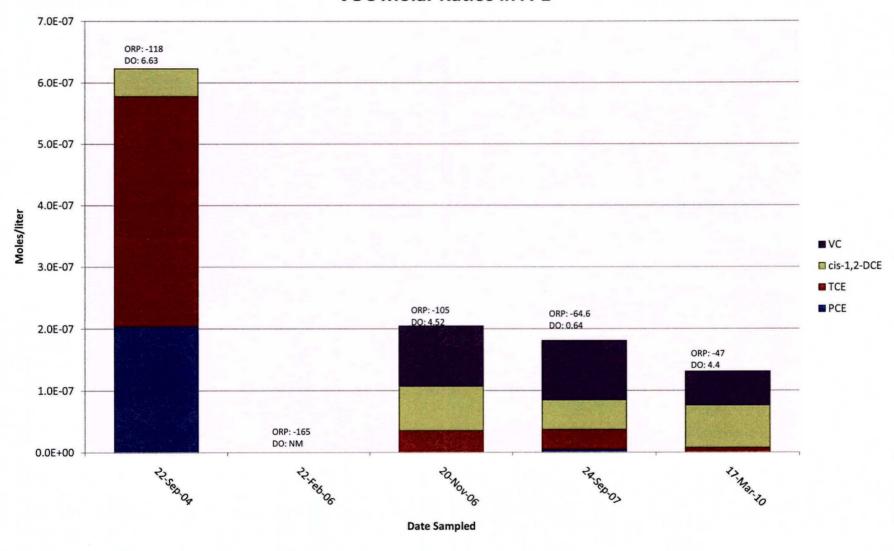
Time vs. Concentration in SW-108

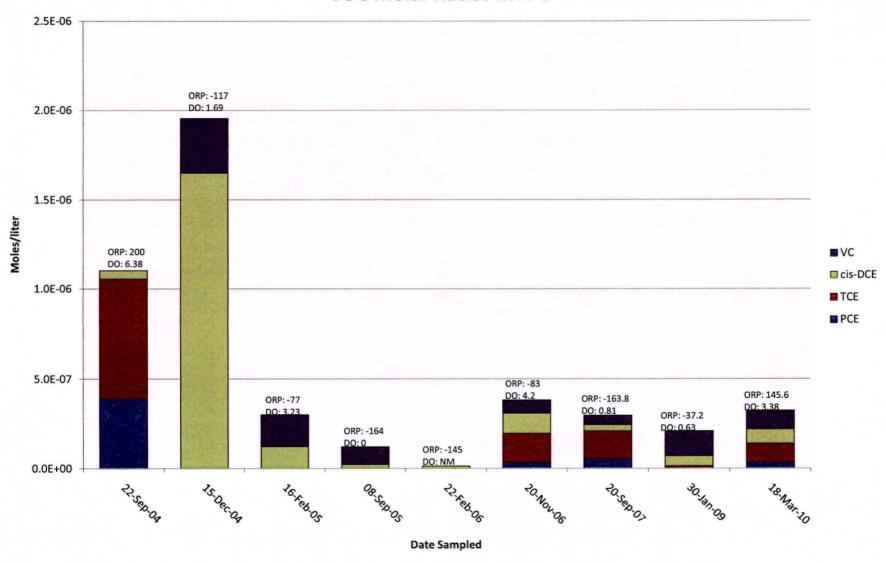


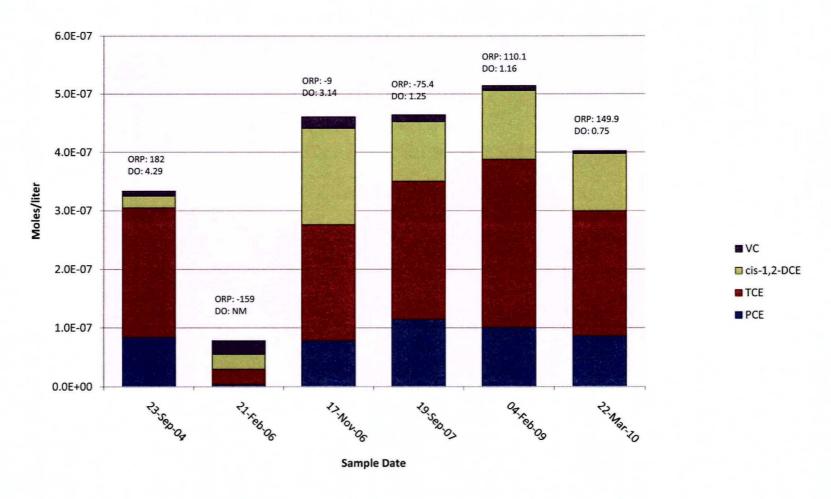
Time vs. Concentration in SW-201

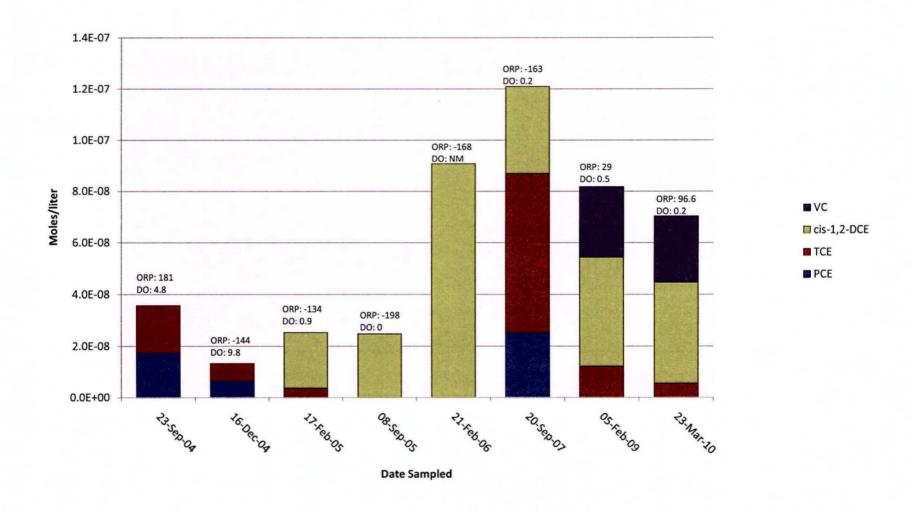


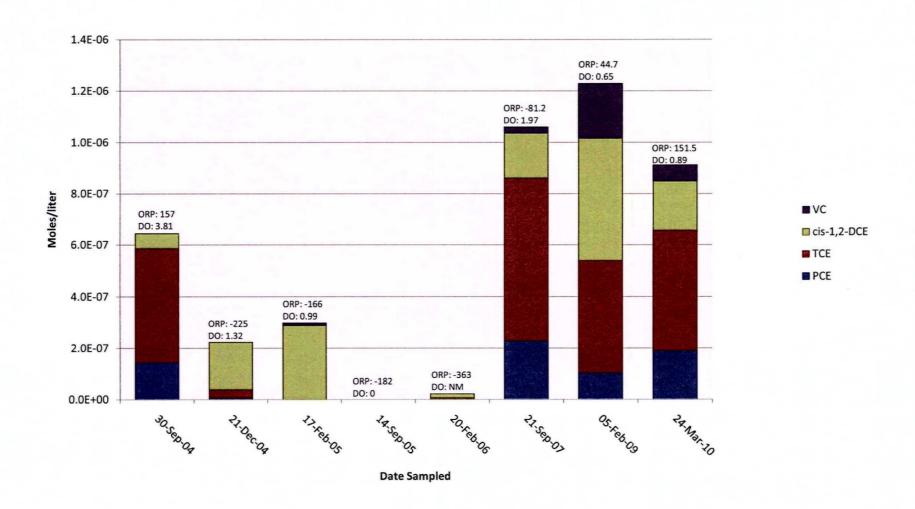
Appendix C Volatile Organic Compound Molar Ratio Graphs

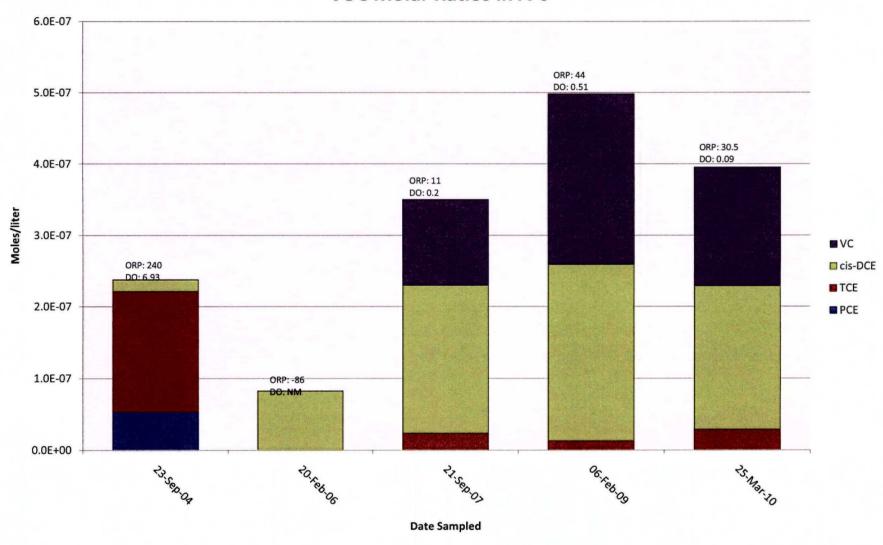


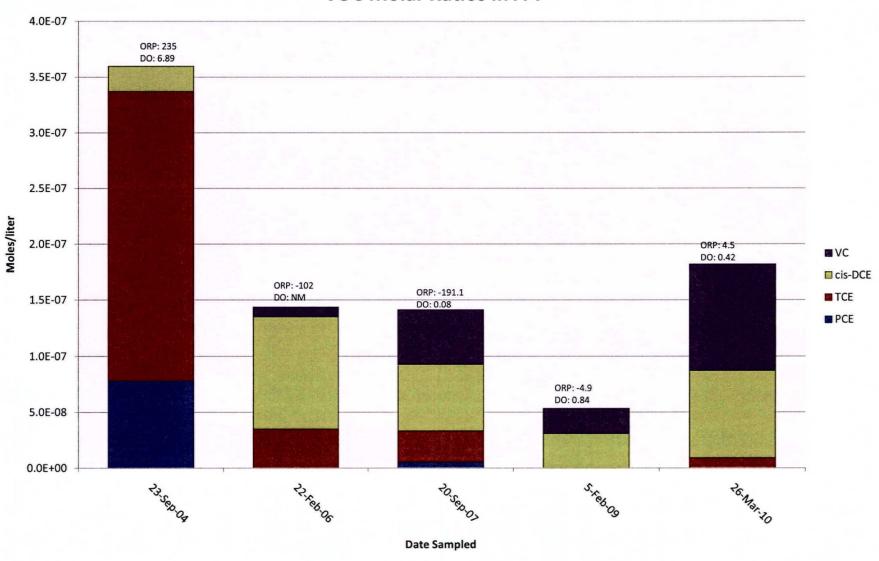


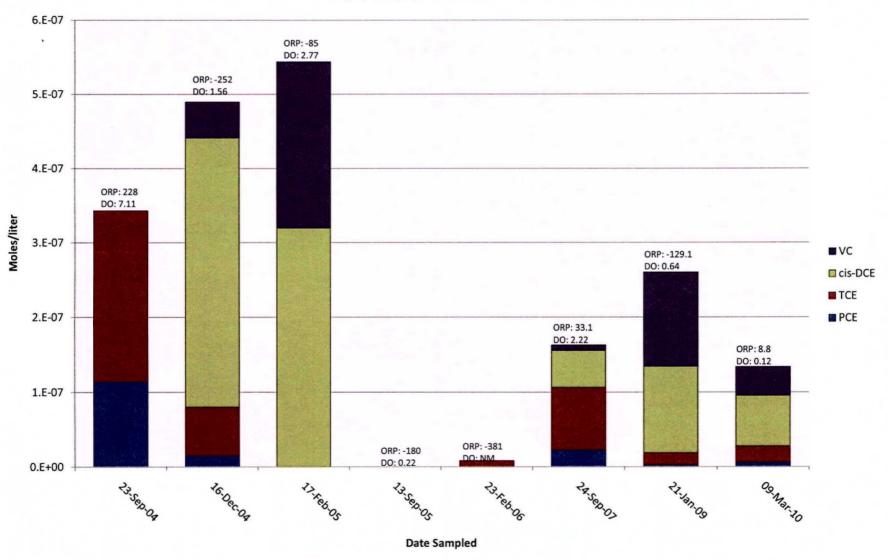


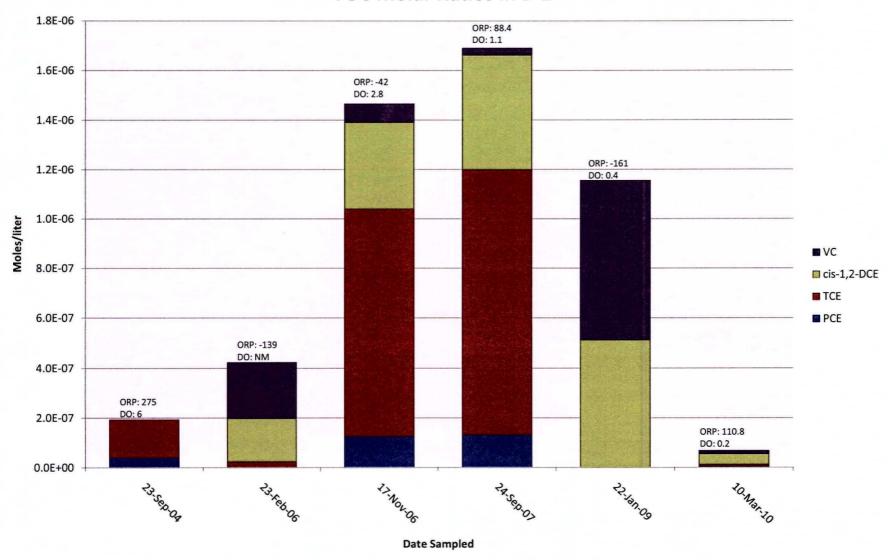


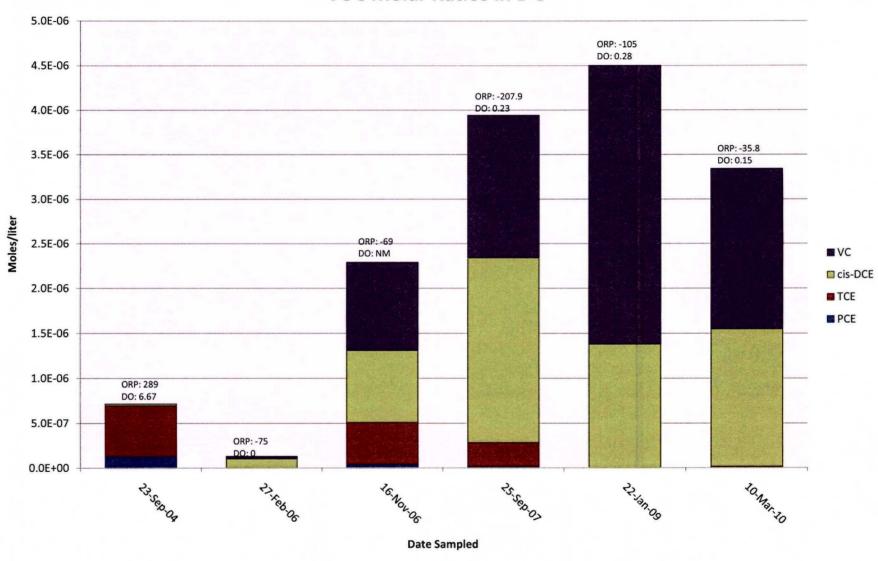


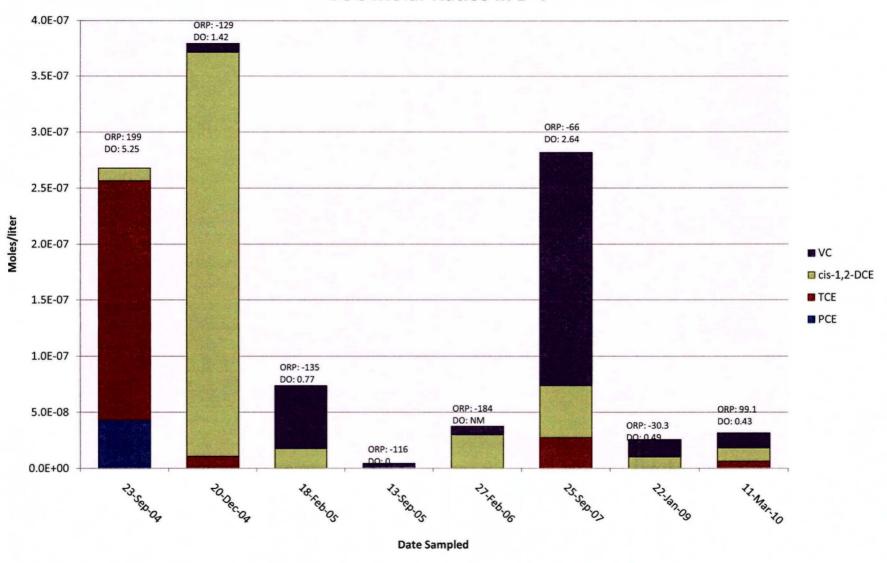


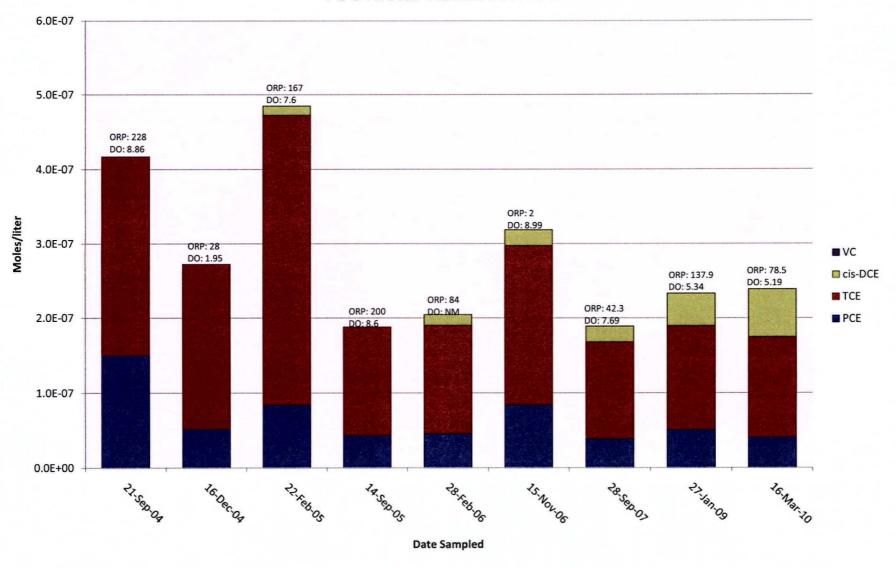


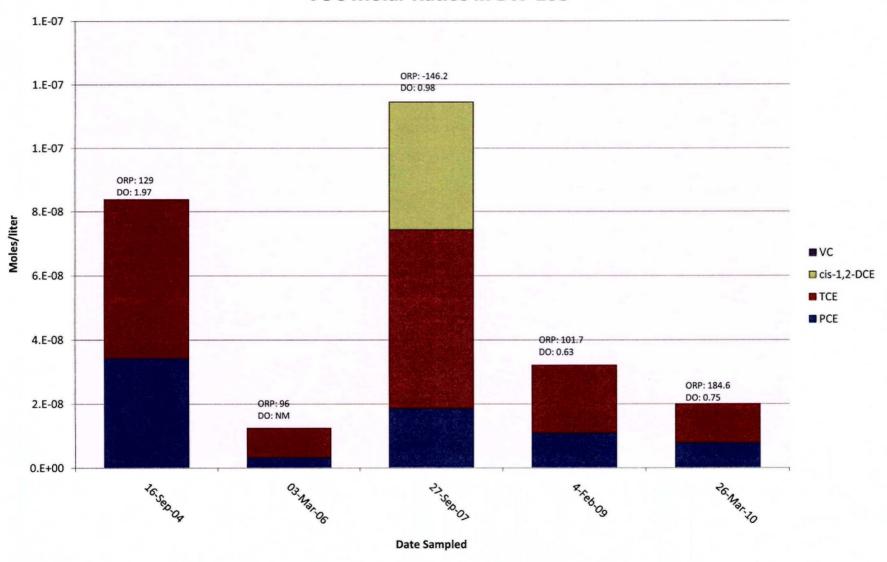


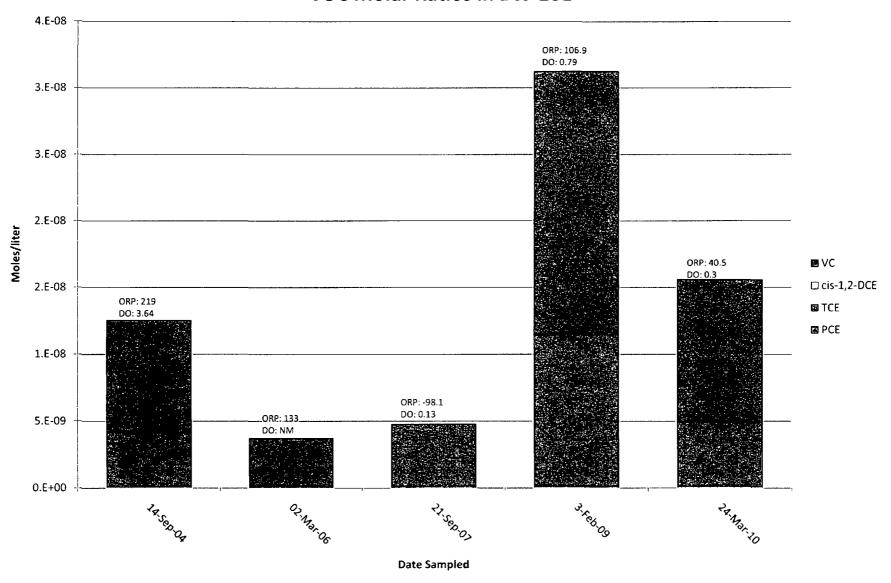


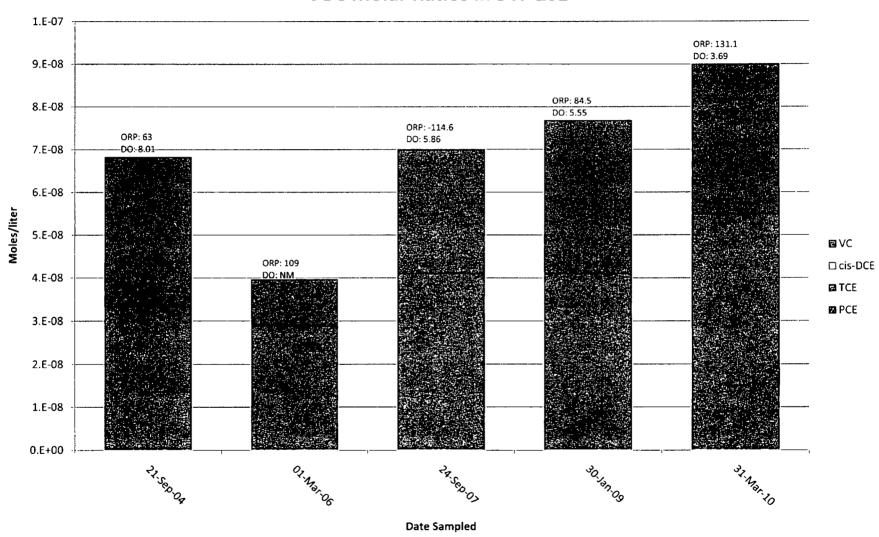




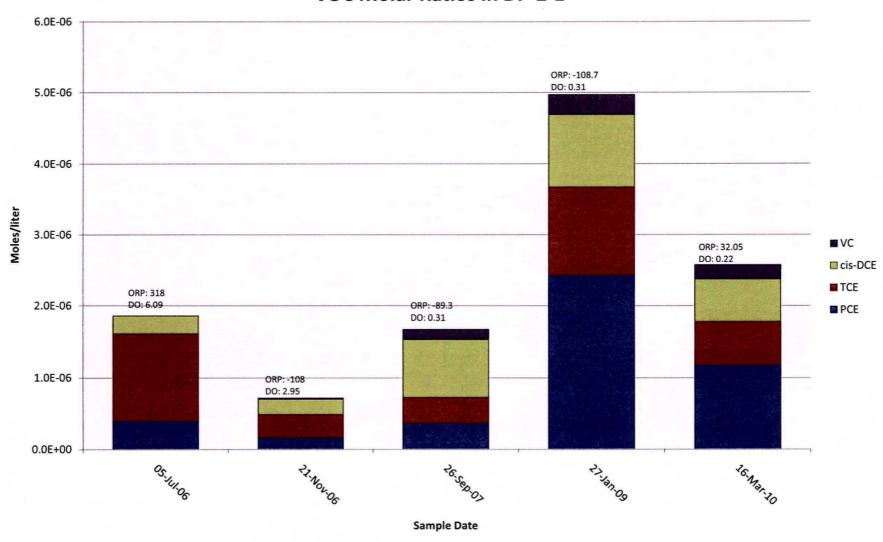




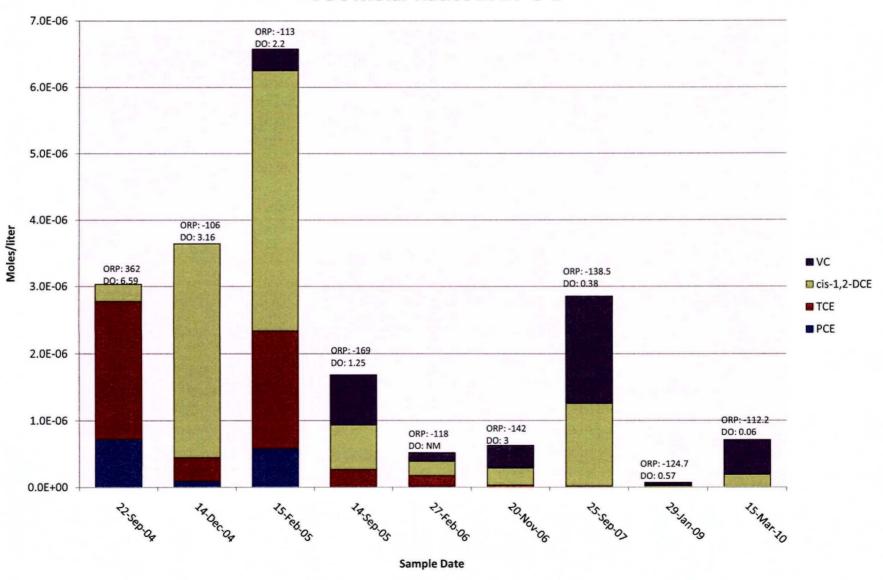




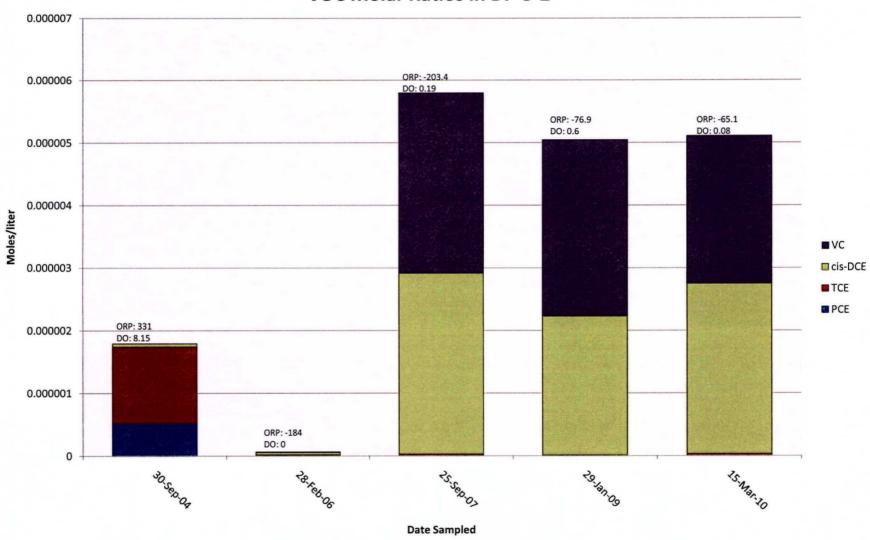
VOC Molar Ratios in DP-2-1

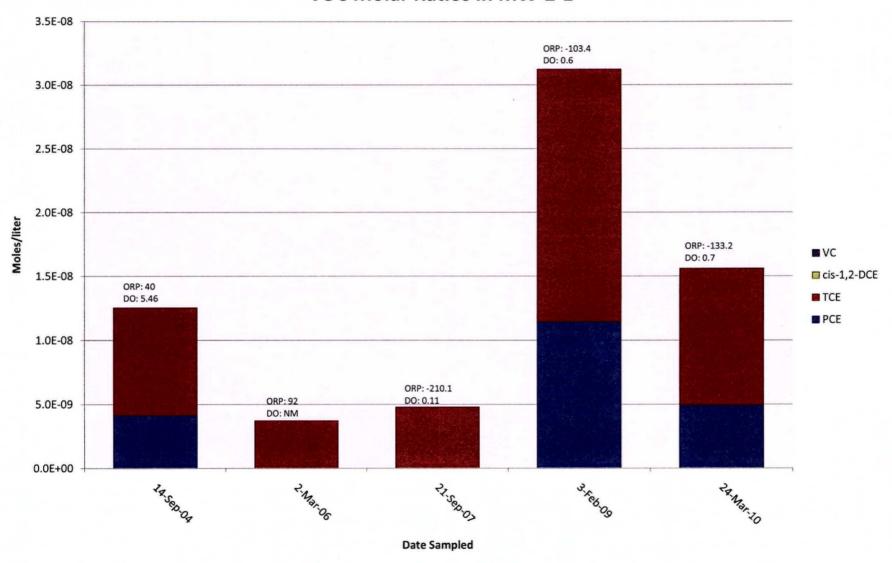


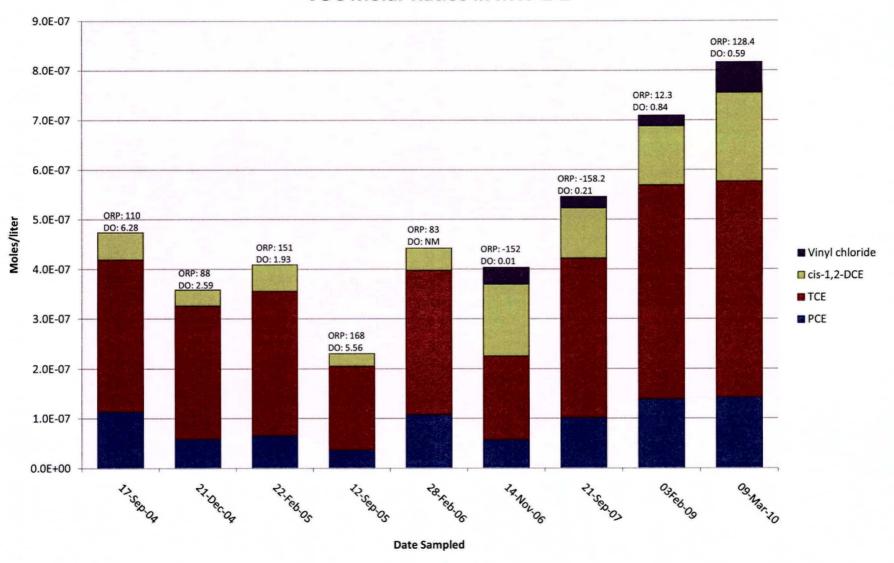
VOC Molar Ratios in DP-3-1

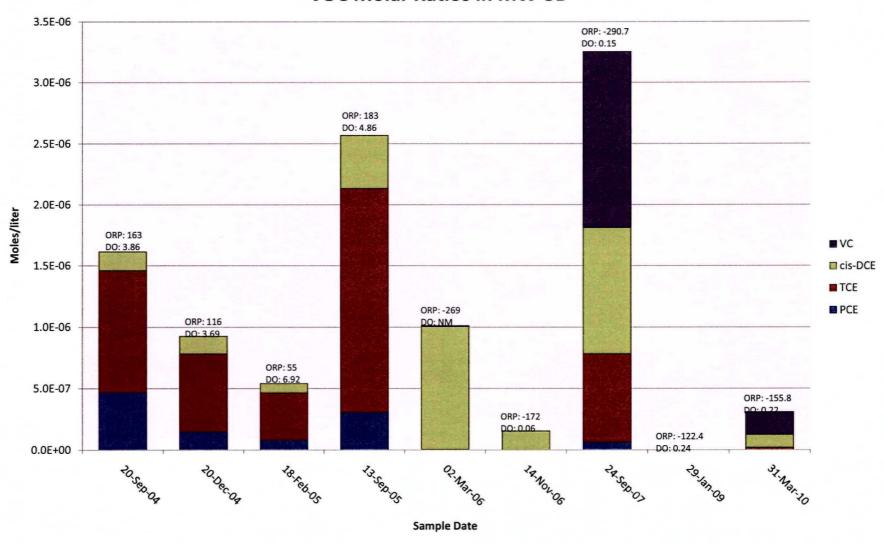


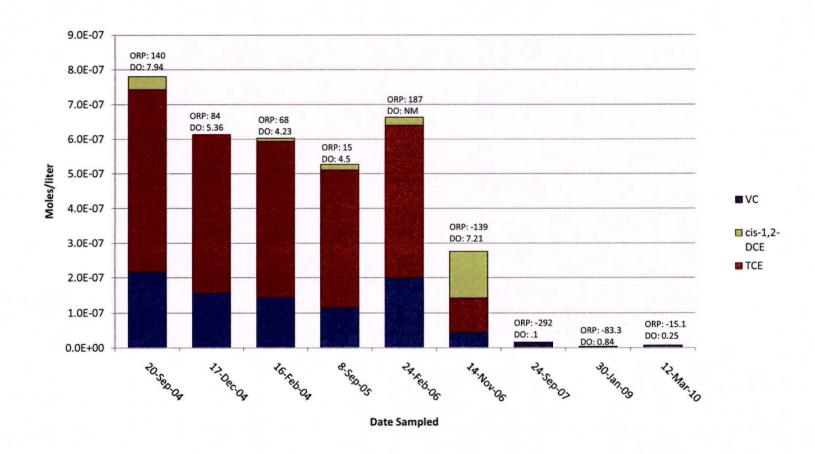
VOC Molar Ratios in DP-3-2

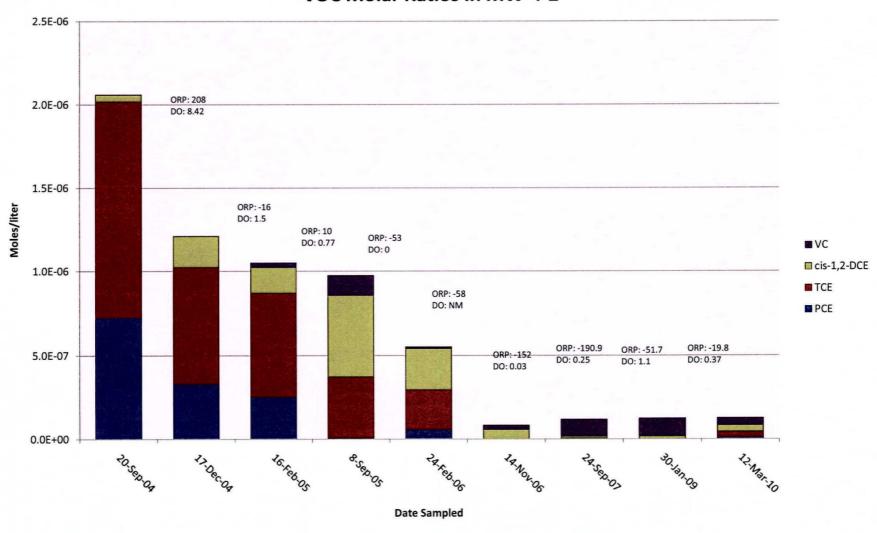


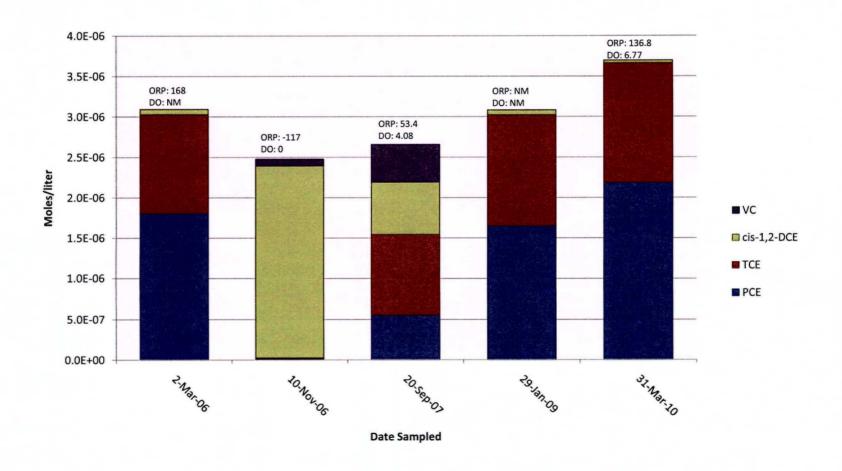


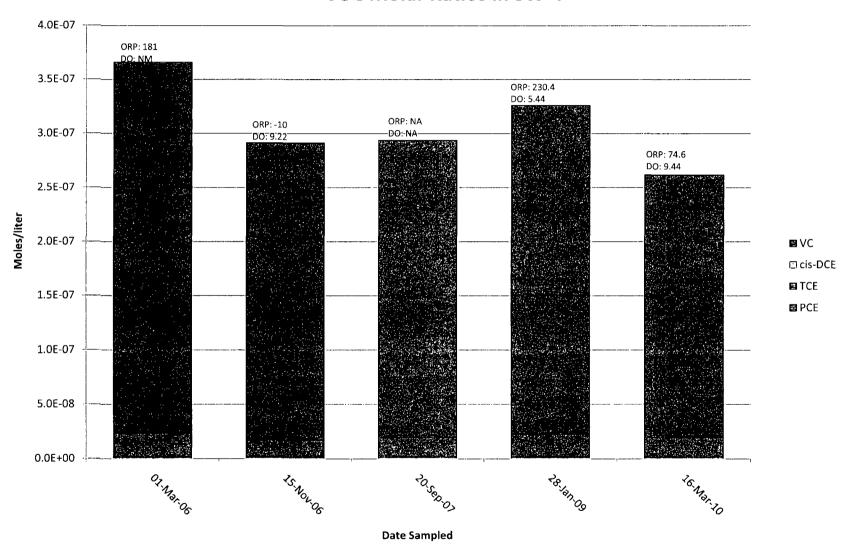


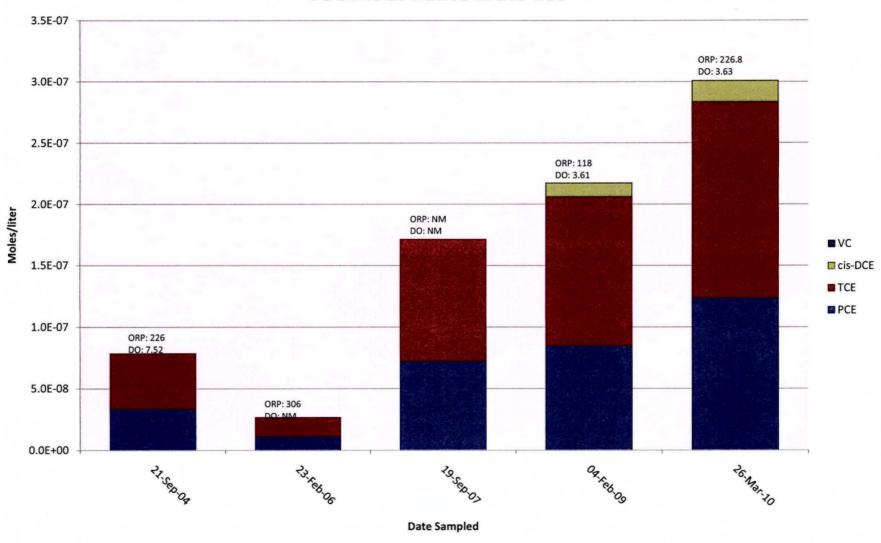


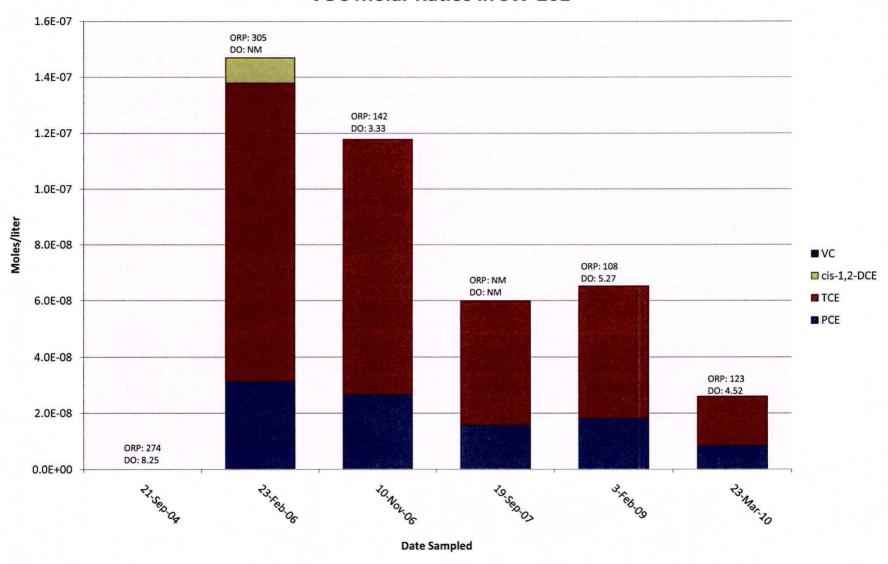










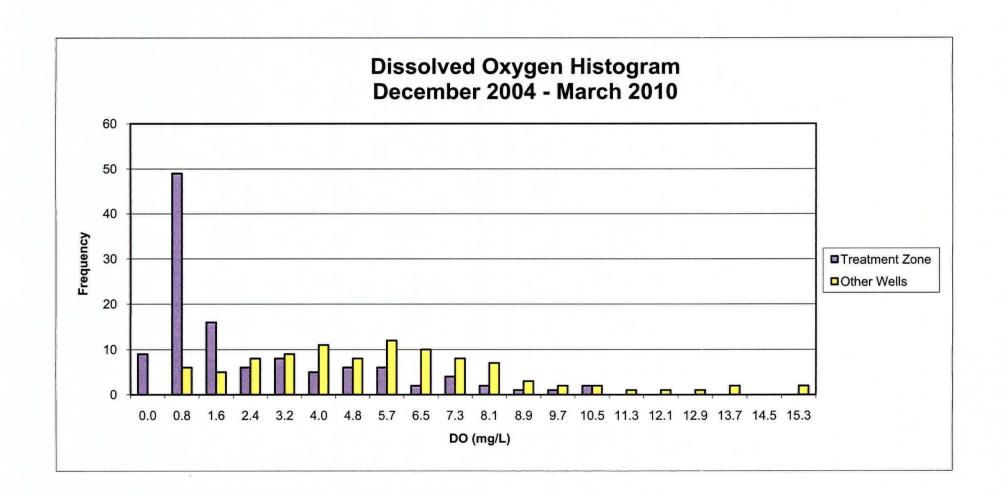


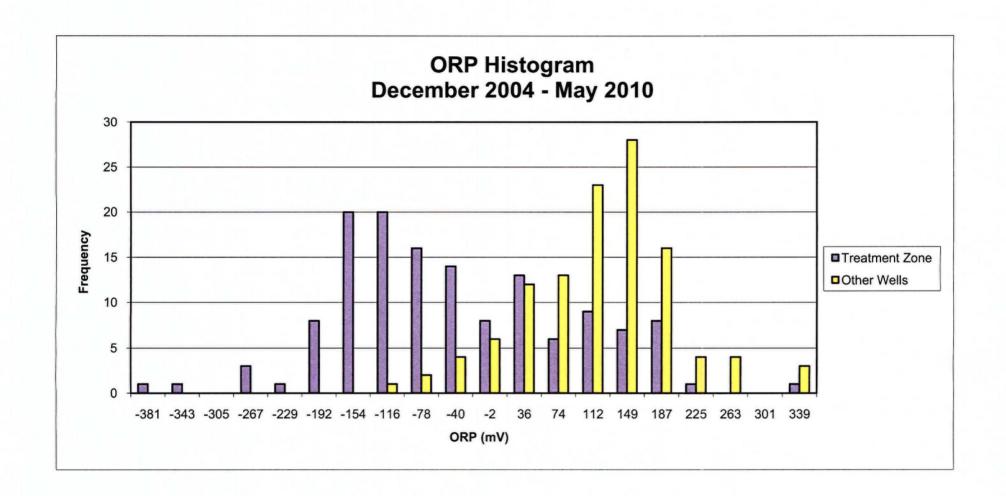
Appendix D Histograms

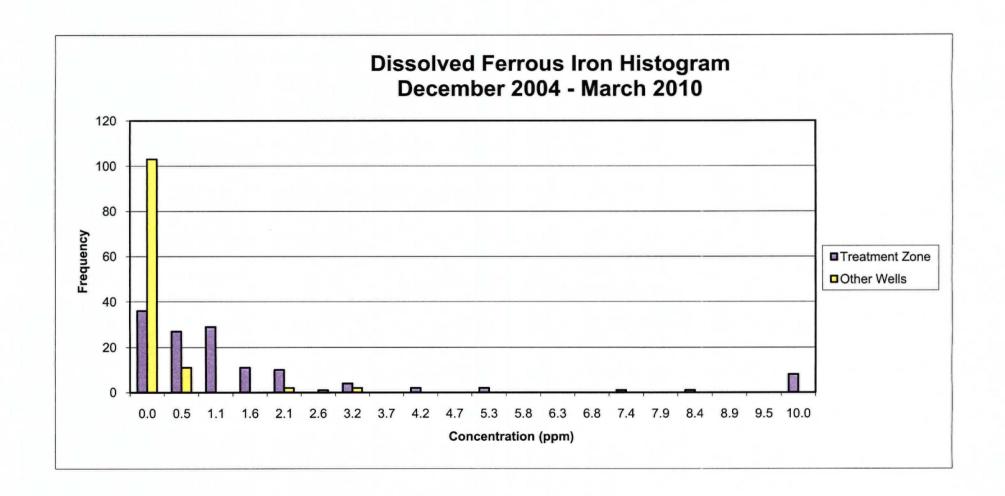
Table D-1
Well Grouping for Histograms

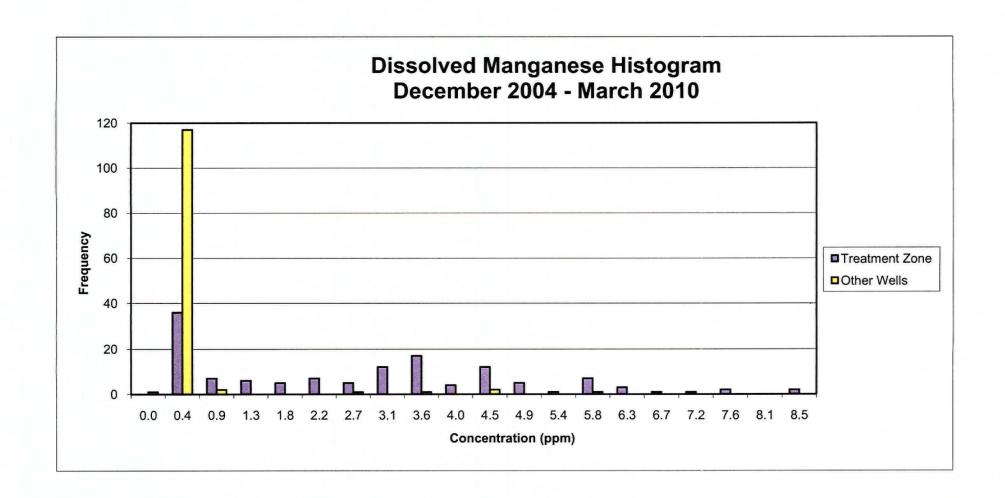
WELLS LOCATED WITHIN ACTIVE TREATMENT ZONE ⁽¹⁾	WELLS LOCATED OUTSIDE ACTIVE TREATMENT ZONE ⁽¹⁾	
A-1	BW-1	
A-2	BW-3	
A-3	BW-4	
A-4	BW-105	
A-5	BW-106	
A-6	BW-108	
A-7	BW-109	
B-1	BW-110	
B-2	BW-201	
B-3	BW-202	
B-4	MLW-1-1	
BW-2	MLW-1-2	
DP-2-1	MLW-1-3	
DP-3-1	MLW-1-4	
DP-3-2	MLW-3-2	
MW-2-1	MLW-3-3	
MVV-2-2	MLW-3-4	
MW-3D	SW-1	
MVV-4-1	SW-4	
MW-4-2	SW-101	
SW-3	SW-102	
	SW-103	
	SW-104	
	SW-106	
	SW-108	
	SW-109	
	SW-201	
(1)	SW-202	

The active treatment zone is described by those wells that were used for injection and those wells immediately adjacent to, or downgradient of the injection wells and expected to be within their ROI.









U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

DocID: 109	11180	Site ID: <u>SCD48055</u> ,	8142
Site Name:	Medley Farm	Drum Dung	
		· · · · · · · · · · · · · · · · · · ·	
Nature of Mate	rial:		
Map:	\square	Computer Disks:	
Photos:		CD-ROM:	
Blueprints:		Oversized Report:	
Slides:		Log Book:	
Other (describe): <u>Geological Cross Sections and TCF Distribution</u> In Grandwitter			
Amount of material:			
* Please contact the appropriate Records Center to view the material *			